

# Service Manual

Convertible Camera  
**AW-E800E**



## SPECIFICATIONS

|                                |   |
|--------------------------------|---|
| <b>Pickup element :</b>        | 2/3" interline, supersensitive CCDx3  |
| <b>Pixels :</b>                | 936 (H) x 575 (V) pixels  |
| <b>Scanning :</b>              | 2:1 interlace   |
| <b>System :</b>                | PAL   |
| <b>Scanning frequency :</b>    | 15.625 kHz (horizontal), 50.00 Hz (vertical)  |
| <b>Lens mount :</b>            | 2/3" Standard bayonet mount   |
| <b>Synchronizing :</b>         | Internal or external  |
| <b>External sync input :</b>   | BB, (BNC, 50P D sub connector)  |
| <b>Sensitivity :</b>           | 2 000 lx, F11, 3 200 K  |
| <b>Minimum illumination :</b>  | 1 lx, F1.7, Night Eye mode  |
| <b>Signal-to-noise ratio :</b> | 60 dB (DTL OFF)   |
| <b>Aspect Ratio :</b>          | 16 : 9, 4 : 3   |
| <b>Horizontal resolution :</b> | 800 TV lines (high band DTL ON, 16 : 9), 850 TV lines (high band DTL ON, 4 : 3)   |
| <b>Registration :</b>          | 0.05 %  |
| <b>Contour correction :</b>    | Horizontal and vertical   |
| <b>White balance :</b>         | Auto (2 memories), 3 200 K, 5 600 K, FINE MANU, ATW   |
| <b>Black balance :</b>         | AUTO  |
| <b>Colour bar :</b>            | Full colour bar (Setup 0)   |
| <b>Shutter speed :</b>         | Synchro Scan: 50.40 Hz-15.63 kHz<br>Step shutter: OFF 1/120, 1/250, 1/500, 1/1 000, 1/2 000, 1/4 000, 1/10 000s<br>ELC  |
| <b>Gain :</b>                  | AGC LOW/HIGH, 0 - 30 dB, NIGHT EYE  |
| <b>Video output :</b>          | Composite: 1 V[p-p] (75 $\Omega$ ) (BNC, 50P D sub connector)<br>Y: 1 V[p-p] (75 $\Omega$ ) (50P D sub connector)<br>C: Same as VBS chroma level (75 $\Omega$ ) (50P D sub connector)   |
| <b>Use mode :</b>              | Halogen, Fluorescent, Outdoor, User   |
| <b>Switches :</b>              | BACK PANEL: MENU, ITEM/AWC, YES/ABC, NO/BAR<br>MFNU ITFM SFTTING: Gain, Shutter, White Balance, Detail Level (OFF/LOW/HIGH),<br>Corner Detail, Precision Detail Level, Black Stretch, High Light Chroma, Flesh Noise<br>Suppress, Photometric Measurement Method (ALL/CENTRE/TOP CUT/BOTTOM<br>CUT/R/L CUT) CCD Read Out Mode (FIELD/FRAME 1/FRAME 2), Use Mode,<br>Nega/Posi, PC Control Access Speed, Aspect Ratio (16 : 9/4 : 3), Fan (ON/OFF) |

# Panasonic

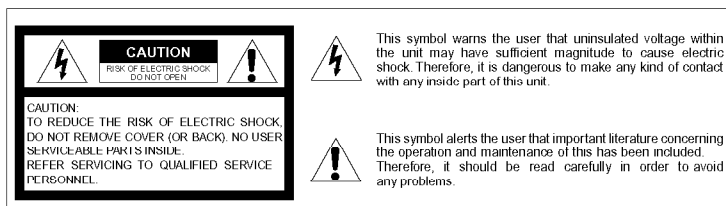
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## WARNING

This service information is designed for experienced repair technicians only and is not designed for use by the general public.

It does not contain warnings or cautions to advise non-technical individuals of potential dangers in attempting to service a product.

Products powered by electricity should be serviced or repaired only by experienced professional technicians. Any attempt to service or repair the product or products dealt with in this service information by anyone else could result in serious injury or death.



### IMPORTANT SAFETY NOTICE

There are special components used in this equipment which are important for safety. These parts are indicated by the "△" mark on the schematic diagram and the replacement parts list. It is essential that these critical parts should be replaced with manufacturer's specified parts to prevent X-radiation, shock, fire, or other hazards. Do not modify the original design without permission of manufacture.

#### Adjustment function :

MENU ADJUSTMENT: R/B Gain, R/B Pedestal, Black Level, Video Level, Detecting Ratio, Genlock Horizontal Phase/Colour Phase, Gamma Compensation Level, Knee Compensation Level, White Clip Level, Horizontal Detail Level, Vertical Detail Level, Detail Band, Noise Suppress Compensation Level, Level Dependent Compensation Level, Chroma Detail Compensation Level, Dark Detail Compensation Level, Matrix Compensation Level, Flare Correction Level

#### Source voltage :

DC 12 V

#### Power consumption :

14.4 W

#### Operating temperature :

-10°C to +45°C (14°F to +113°F)

#### Operating humidity :

30 % to 90 %

#### Dimensions :

84 (W) x 92 (H) x 192 (D) mm [3 5/16" x 3 5/8" x 7 9/16"]

#### Weight :

1.07 kg

#### Finish :

AV Ivory painting (Munsell 7.9Y 6.8/0.8 or equivalent)

Weight and dimensions indicated are approximate.

Specifications are subject to change without notice.

## STANDARD ACCESSORIES

Body cap ..... 1  
Rubber Sheet ..... 1

Mounting Adaptor ..... 1  
Screw ..... 2

## OPTIONAL ACCESSORIES

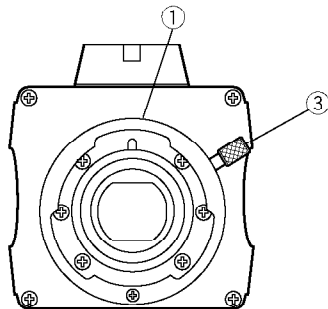
|                            |                     |                                       |            |
|----------------------------|---------------------|---------------------------------------|------------|
| Pan/Tilt Unit              | AW-PH300            | Cable Joint Adaptor                   | WV-CA26T26 |
| Pan/Tilt Unit AC Adaptor   | AW-PS300            | RCB Cable                             | AW-CA50T10 |
| Hybrid Control Panel       | AW-RP501            | RCB Extension Cable                   | AW-CA50B10 |
| Multi Hybrid Control Panel | AW-RP505            | RCU Cable                             | AW-CA50A26 |
| Multi Port Hub             | AW-HB505            | Pan/Tilt Unit Cable                   | AW-CA50T15 |
| Control Panel AC Adaptor   | AW-PS301            | PC Control Camera Pan/Tilt Unit Cable | AW-CA50A15 |
| AC Adaptor                 | AW-PS505            | PC Control Pan/Tilt Unit Cable        | AW-CA28T9  |
| Remote Control Unit        | WV-RC700A, WV-RC550 | PC Control Cable                      | AW-CA50T9  |
| Remote Control Box         | WV-CB700A           | DC Power Cable                        | AW-CA4T1   |
| Camera Mounting Bracket    | WV-831              | RGB Cable                             | AW-CA50T6  |
| RCU Rack Mount Frame       | WV-Q70              | Studio Card (RGB, YPr-YPb Outputs)    | AW-PB301E  |
| VF Mounting Bracket        | AW-Q40              | Studio Card (Y, C Outputs)            | AW-PB305E  |
| Connection Cable           | WV-CA9T5            | RGB Card                              | AW-PB302E  |
| (D sub9p-BNC, approx. 5 m) |                     | High Sensitivity Card                 | AW-PB303E  |
| Studio Cable               | WV-CA26U15          | SDI Card                              | AW-PB304E  |
|                            | WV-CA26U30          | Lens I/F Card                         | AW-PB308E  |
|                            | WV-CA26U100         |                                       |            |

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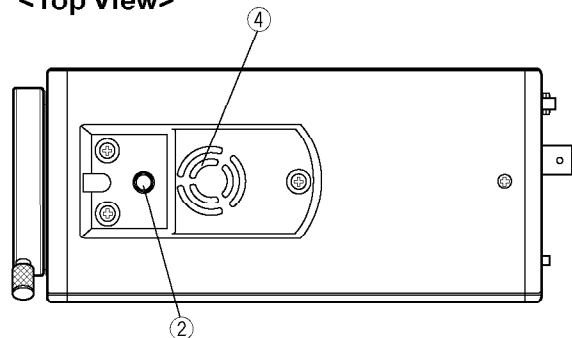
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# MAJOR OPERATING CONTROLS AND THEIR FUNCTIONS

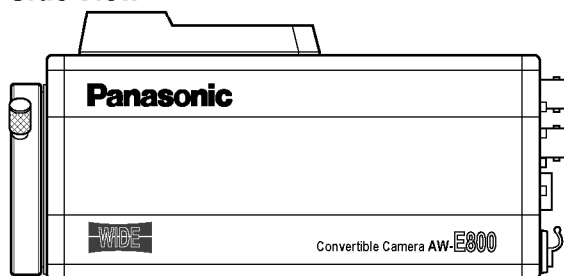
<Front View>



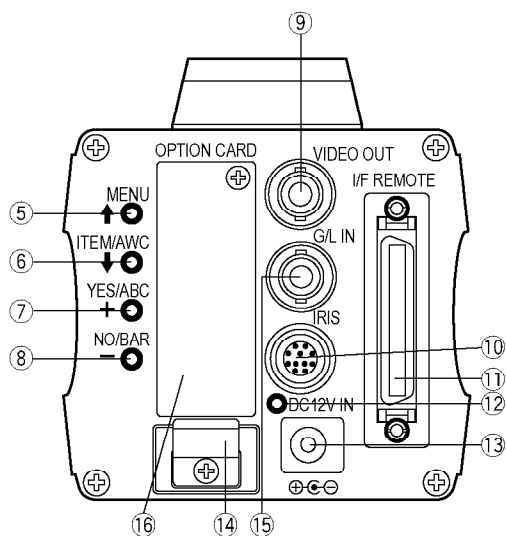
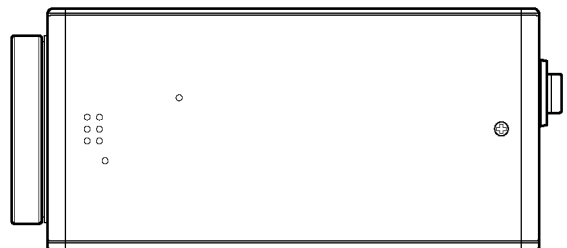
<Top View>



<Side View>



<Bottom View>



## 1. Lens Mount

2/3" Standard bayonet type lens or a microscope adaptor can be mounted.

## 2. Mounting hole

A screw hole (1/4" - 20 UNC) for mounting the camera on a wall, ceiling with a mounting bracket or tripod.

## 3. Lens fixing ring knob

Rotate the lens fixing ring knob counterclockwise and remove the lens mount cap. Mount the lens on the camera and rotate the lens fixing ring knob clockwise in order to fix the lens securely.

## 4. Cooling Fan

- Do not cover the port or otherwise block ventilation during operation. Internal heat buildup can cause a fire.
- The cooling fan has a service life of about 30 000 hours. (at a room temperature of 25°C) Replace the fan that has come to the end of its service life. (If the fan is used at a room temperature of 35°C, replace it about 30% sooner.)

Whenever fan replacement is necessary, be sure to ask the store where you purchased the set.

## 5. MENU Switch (MENU/↑)

A menu will appear on the monitor screen when this switch is pressed for about 5 seconds. This item can be selected by pressing the switch while the menu is on the screen.

## 6. ITEM/AWC Switch (ITEM/AWC/↓)

The item just below can be selected by pressing this switch while the menu is on the screen. When the menu is not displayed or the camera is in shooting mode, the automatic white balance control can be set with this switch.

## 7. YES/ABC Switch (YES/ABC/+)

The Sub Menu for each item of the Main Menu is displayed when this switch is pressed while the Main Menu is on the screen.

While the Sub Menu is displayed, any setting can be brought up to a higher value with this switch. When the menu is not displayed or the camera is in shooting mode, the automatic black balance control can be set with this switch.



### 8. NO/BAR Switch (NO/BAR/-)

The item just below can be selected by pressing this switch while the Sub Menu is on the screen.

While the Sub Menu is displayed any setting can be brought down to a lower value with this switch. When the menu is not displayed or the camera is in shooting mode, the color (colour) bar and the shooting conditions are alternately indicated by pressing the switch.

### 9. Video Output Connector (VIDEO OUT)

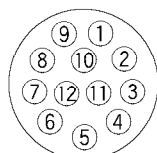
A composite video signal is provided at this connector.

### 10. Iris Connector (IRIS)

Input terminal for lens with an iris control function.

| Pin No. | Signal              | Pin No. | Signal              |
|---------|---------------------|---------|---------------------|
| 1       | Return Control      | 7       | Iris Follow         |
| 2       | Not Used            | 8       | Auto/Remote Control |
| 3       | GND                 | 9       | Not Used            |
| 4       | Auto/Manual Control | 10      | Not Used            |
| 5       | Iris Control        | 11      | Not Used            |
| 6       | Lens Power          | 12      | Not Used            |

Iris Connector (IRIS)



<Front View>

### 11. I/F Remote Connector (I/F REMOTE)

Input terminal dedicated to control signals from the optional Remote Control Box (RCB) (WV-CB700A) and the RCU (WV-RC700A, WV-RC550) and the camera pan/tilt unit (AW-PH300).

- \* WV-CB700A is connected through the optional RCB cable (AW-CA50T10/AW-CA50B10).
- \* WV-RC700A/WV-RC550 is connected through the optional RCU cable (AW-CA50A26).
- \* AW-PH300 is connected through the optional pan/ tilt unit cable (AW-CA50T15/AW-CA50A15).

### 12. Power Indicator

Red LED lamp lights to indicate that the specified DC power is supplied to the camera.

### 13. DC 12 V Input Connector (DC 12V IN)

12 V DC is supplied through the optional DC power supply cable (AW-CA4T1).



#### Cautions

1. Connect this to a DC 12 V class 2 power supply only.
2. To prevent fire or shock, the UL listed wire VW-1, style 1007 should be used as for the cable for DC 12 V Input Connector.

### 14. Cable Clamp

Clamp the DC Power Supply Cable (AW-CA4T1) connected to the DC 12 V Input Connector to prevent it from slipping out.

### 15. G/L Input Connector (G/L IN)

Signals synchronized with the reference signal are to be supplied to this connector when the camera is to be synchronized with the reference signal BB.

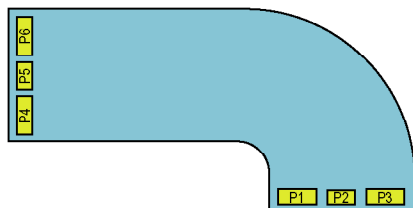
### 16. Optional Card Slot

Slot for inserting an optional card. For details, refer to the manual for optional cards.

# ADJUSTMENT PROCEDURE

## 1. Test Equipment Required

- The following test Equipments are required for adjustment of the Convertible Camera AW-E800/AW-E800E.
- Oscilloscope
- Frequency Counter
- Digital Voltmeter
- Vectorscope
- Waveform Monitor
- Underscanned Color (Colour) Video Monitor (correspond to Wide Picture)
- High Resolution Black and White Video Monitor (correspond to Wide Picture)
- Signal Generator
- 12 V DC Power Supply Unit
- Lux Meter
- Lighting (200 footcandles (2,000 lx), Color (Colour) Temperature 3,200 K)
- Auto Iris Lens (2/3" Bayonet-Mount)
- Camera Cables AW-CA50T6
- Remote Control Box (WV-CB700A)
- 1/2 ND Filter (2 pieces)
- RCB Cable (AW-CA50T10)
- Logarithmic Gray Scale Chart (Part No. : YWV2310RB99)
- Extension Board between Joint Board and Analog Process or DSP Board (Part No. : 0E1A055A)



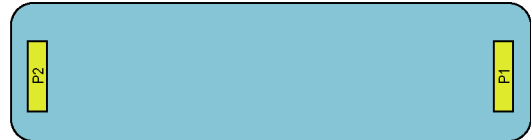
- Extension Board between DSP Board and Encoder Board (Part No. : 0E1A058A)



- Extension Board between DSP Board and Drive Board (Part No. : 0E1A056A)



- Extension Board between DSP Board and Encoder Board (Part No. : 0E1A057A)



- Extension Board between Gch of CCD and Analog Process Board and Drive Board (Part No. : 0E1A059A)  
This Extension Board including three boards.  
Extension Board between Bch CCD and Gch CCD  
Extension Board between Rch CCD and Gch CCD  
Extension Board between Gch CCD and Drive Board



Extension Board between Gch of CCD and Drive Board



Extension Board between Gch of CCD and Analog Process Board



## 2. Disassembling Procedure for Adjustment

- Referring to Fig. 2-1, remove four screws that secure the Rear Panel and remove the Rear Panel.

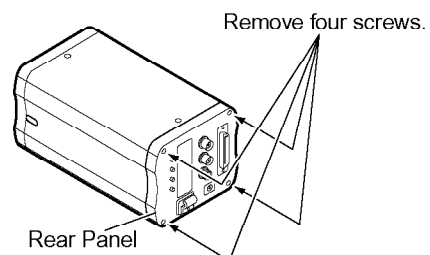


Fig. 2-1

### 3. Connection and Setting Up for Adjustment

#### 3.1. Connection

- The Fig. 3-1 shows the connection diagram for the adjustment procedure.

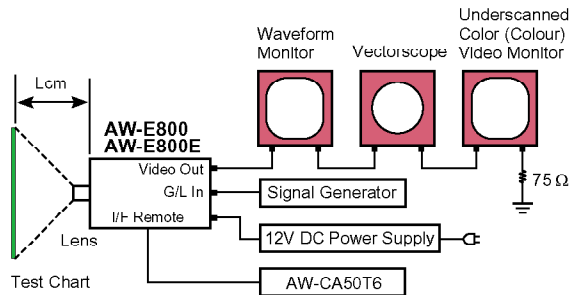


Fig. 3-1

- Connect the Underscanned Color (Colour) Video Monitor to the Video Output Connector on the Rear Panel of the Convertible Camera AW-E800/AW-E800E through the Waveform Monitor and the Vectorscope.
- Terminate the input terminal of the Underscanned Color (Colour) Video Monitor with 75 Ω.
- Mount the Auto Iris Lens to the AW-E800/AW-E800E.
- Connect the Power Supply Unit to the DC 12 V Input Connector on the Rear Panel of the AW-E800/AW-E800E.
- For the Optional Card AW-PB301/AW-PB301E and AW-PB302/AW-PB302E, connect the AW-CA50T6 to the I/F Remote Connector on the Rear Panel of the AW-E800/AW-E800E.
- Terminate the Connectors of the AW-CA50T6 with 75 Ω.
- Connect the probe of the Digital Voltmeter, Oscilloscope or Frequency Counter at the desired Test Point in each adjustment step.

#### 3.2. Setting Up for Standard Picture

- The adjustment should be done after 10 minutes warm-up.
- Set the Logarithmic Gray Scale Chart.
- Incident light of 2,000 lx on the Logarithmic Gray Scale Chart.
- Aim the Camera at the Logarithmic Gray Scale Chart.
- Set the Camera so that the Logarithmic Gray Scale Chart becomes full picture on the Underscanned Color (Colour) Video Monitor.
- Connect the Oscilloscope to E301 (G-IN) on the Analog Process Board.
- Adjust the Lens Focus to obtain correct focal point.

- Set the Lens Iris so that the peak level of the Gray Scale from the Blanking level becomes 270 mVp-p as shown in Fig. 3-2.

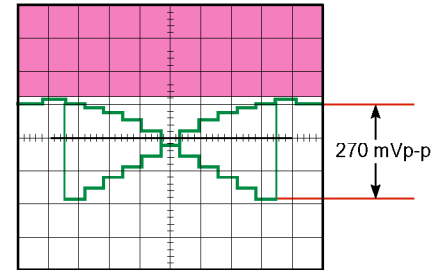


Fig. 3-2

- The adjustments should be done with this Standard Picture, unless otherwise specified.

### 4. Adjustment Procedure

- Refer to the Location of the Test Points and Adjusting Controls on the page 10.

#### (1). Internal Frequency Adjustment

**Test Point:** TP6 (INT 28M)

**DSP Board**

**Adjust:** R140 (INT 28M)

**Encoder Board**

- Connect the Frequency Counter to TP6.
- Adjust R140 so that the Internal Frequency becomes 28.636364 MHz  $\pm$  10 Hz for AW-E800 (28.375 MHz for AW-E800E).

#### (2). OG Voltage Adjustment

**Test Point:** E16 (OG-R)

**Drive Board**

E15 (OG-G)

**Drive Board**

E14 (OG-B)

**Drive Board**

**Adjust:** R119 (OG-R)

**Drive Board**

R116 (OG-G)

**Drive Board**

R113 (OG-B)

**Drive Board**

- Connect the Oscilloscope to E16.
- Adjust R119 so that the Rch OG level becomes 1.5 V.
- Change the connection of the Oscilloscope to E15.
- Adjust R116 so that the Gch OG level becomes 1.5 V.
- Change the connection of the Oscilloscope to E14.
- Adjust R113 so that the Bch OG level becomes 1.5 V.

### (3). RG Voltage Adjustment

|                    |                    |                             |
|--------------------|--------------------|-----------------------------|
| <b>Test Point:</b> | <b>E301 (G-IN)</b> | <b>Analog Process Board</b> |
|                    | <b>E101 (R-IN)</b> | <b>Analog Process Board</b> |
|                    | <b>E501 (B-IN)</b> | <b>Analog Process Board</b> |
| <b>Adjust:</b>     | <b>R59 (RG-G)</b>  | <b>Drive Board</b>          |
|                    | <b>R61 (RG-R)</b>  | <b>Drive Board</b>          |
|                    | <b>R57 (RG-B)</b>  | <b>Drive Board</b>          |

- Open the Lens Iris.
- Connect the Oscilloscope to E301.
- Adjust R59 so that the saturation level of Gch becomes maximum and the distortion in the circle area becomes minimum as shown in Fig. 4-1.
- Change the connection of the Oscilloscope to E101.
- Adjust R61 so that the saturation level of Rch becomes maximum and the distortion in the circle area becomes minimum as shown in Fig. 4-1.
- Change the connection of the Oscilloscope to E501.
- Adjust R57 so that the saturation level of Bch becomes maximum and the distortion in the circle area becomes minimum as shown in Fig. 4-1.

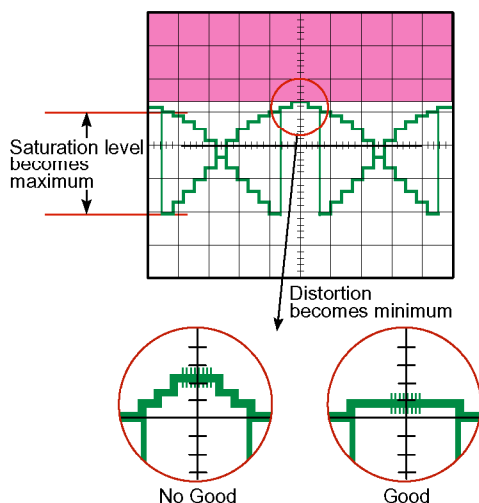


Fig. 4-1

### (4). VSUB Voltage Adjustment

|                |                    |                    |
|----------------|--------------------|--------------------|
| <b>Adjust:</b> | <b>R1 (VSUB-B)</b> | <b>Drive Board</b> |
|                | <b>R2 (VSUB-G)</b> | <b>Drive Board</b> |
|                | <b>R3 (VSUB-R)</b> | <b>Drive Board</b> |

**Observe:** Video Monitor

- Aim the Camera at the 40-watt Lamp placed in the dark background.
- Open the menu and set the electronic shutter speed to 1/500.
- Open the Lens Iris so that the blooming becomes visible.

- Adjust R1 so that the blooming and noise of Bch on the Video Monitor become minimum as shown in Fig. 4-2.
- Adjust R2 so that the blooming and noise of Gch on the Video Monitor become minimum as shown in Fig. 4-2.
- Adjust R3 so that the blooming and noise of Rch on the Video Monitor become minimum as shown in Fig. 4-2.

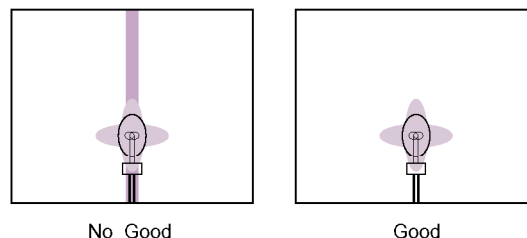


Fig. 4-2

- Open the menu and turn off the electronic shutter.

### (5). Preamp. Adjustment

|                    |                       |                             |
|--------------------|-----------------------|-----------------------------|
| <b>Test Point:</b> | <b>E307 (G)</b>       | <b>Analog Process Board</b> |
|                    | <b>E507 (B)</b>       | <b>Analog Process Board</b> |
|                    | <b>E107 (R)</b>       | <b>Analog Process Board</b> |
| <b>Adjust:</b>     | <b>R323 (G-WC)</b>    | <b>Analog Process Board</b> |
|                    | <b>R123 (R-WC)</b>    | <b>Analog Process Board</b> |
|                    | <b>R523 (B-WC)</b>    | <b>Analog Process Board</b> |
|                    | <b>R446 (G-LEVEL)</b> | <b>Analog Process Board</b> |
|                    | <b>R328 (G-DC)</b>    | <b>Analog Process Board</b> |
|                    | <b>R646 (B-LEVEL)</b> | <b>Analog Process Board</b> |
|                    | <b>R528 (B-DC)</b>    | <b>Analog Process Board</b> |
|                    | <b>R246 (R-LEVEL)</b> | <b>Analog Process Board</b> |
|                    | <b>R128 (R-DC)</b>    | <b>Analog Process Board</b> |

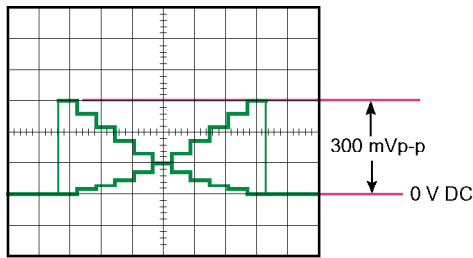
- Observe at E307, E507 and E107 by the Oscilloscope.
- Turn R323, R523 and R123 so that the signals are not clipped as shown in Fig. 4-3.
- Turn R328, R528 and R128 so that the signals do not go below the Blanking Level as shown in Fig. 4-3.



Position of White Clip VR      Position of Preamp. DC VR

Fig. 4-3

- Connect the Oscilloscope to E307.
- Adjust R446 so that G-Level becomes 300 mVp-p as shown in Fig. 4-4.
- Adjust R328 so that the DC voltage at E307 becomes 0 V as shown in Fig. 4-4.
- Change the connection of the Oscilloscope to E507.
- Adjust R646 so that B-Level becomes 300 mVp-p as shown in Fig. 4-4.



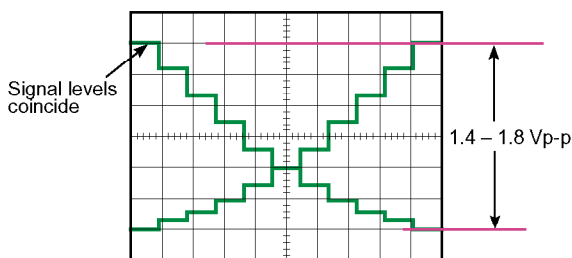
**Fig. 4-4**

- Adjust R528 so that the DC voltage at E507 becomes 0 V as shown in Fig. 4-4.
- Change the connection of the Oscilloscope to E107.
- Adjust R246 so that R-Level becomes 300 mVp-p as shown in Fig. 4-4.
- Adjust R128 so that the DC voltage at E107 becomes 0 V as shown in Fig. 4-4.

#### (6). White Clip Adjustment

|                    |                    |                             |
|--------------------|--------------------|-----------------------------|
| <b>Test Point:</b> | <b>E307 (G)</b>    | <b>Analog Process Board</b> |
|                    | <b>E107 (R)</b>    | <b>Analog Process Board</b> |
|                    | <b>E507 (B)</b>    | <b>Analog Process Board</b> |
| <b>Adjust:</b>     | <b>R323 (G-WC)</b> | <b>Analog Process Board</b> |
|                    | <b>R123 (R-WC)</b> | <b>Analog Process Board</b> |
|                    | <b>R523 (B-WC)</b> | <b>Analog Process Board</b> |

- Set the Lens Iris by more than three digits to the open direction.
- Connect CH1 of the Oscilloscope to E307 and CH2 of the Oscilloscope to E107.
- Adjust R323 and R123 so that the two signal levels coincide with each other from 1.4 Vp-p to 1.8 Vp-p as shown in Fig. 4-5.



**Fig. 4-5**

- Change the connection of CH2 of the Oscilloscope to E507.
- Adjust R523 so that the signal level at E507 coincides with the signal level at E307 as shown in Fig. 4-5.

#### (7). Automatic Adjustment

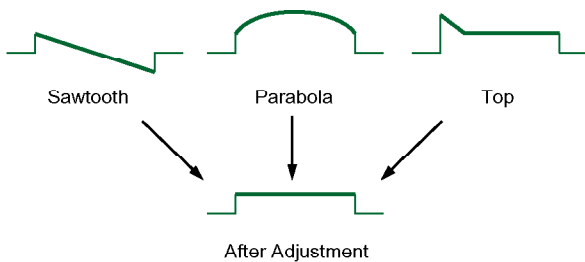
**Test Point:** E307 (G) **Analog Process Board**

- Set the Lens Iris to the Automatic side.
- Turn the power ON while pressing the ITEM/AWC (↓) Switch YES/ABC (+) Switch and NO/BAR (-) Switch on the Rear Panel of the AW-E800/AW-E800E.
- The Automatic Adjustment Menu is displayed, set the Lens Iris to the Manual side.
- Connect the Oscilloscope to E307.
- Set the Lens Iris so that the peak level of the Gray Scale from the Blanking level becomes 300 mVp-p as shown in Fig. 4-4.
- Press the YES/ABC (+) Switch.
- Move to the Automatic Adjustment Item by the ITEM/AWC (↓) Switch.
- Set the Lens Iris to the Automatic side.
- Press the YES/ABC (+) Switch, and confirm that the Automatic Adjustment should be finished and displayed "OK".
- Turn the power OFF and ON again so that the Camera return to the Normal mode.

#### (8). Dark Shading Adjustment

|                    |                           |                             |
|--------------------|---------------------------|-----------------------------|
| <b>Test Point:</b> | <b>E305 (G-OUT)</b>       | <b>Analog Process Board</b> |
|                    | <b>E105 (R-OUT)</b>       | <b>Analog Process Board</b> |
|                    | <b>E505 (B-OUT)</b>       | <b>Analog Process Board</b> |
| <b>Adjust:</b>     | <b>R776 (G-H PARA)</b>    | <b>Analog Process Board</b> |
|                    | <b>R785 (G-H SAW)</b>     | <b>Analog Process Board</b> |
|                    | <b>R803 (G-V TOP)</b>     | <b>Analog Process Board</b> |
|                    | <b>R767 (V TOP WIDTH)</b> | <b>Analog Process Board</b> |
|                    | <b>R774 (R-H PARA)</b>    | <b>Analog Process Board</b> |
|                    | <b>R783 (R-H SAW)</b>     | <b>Analog Process Board</b> |
|                    | <b>R801 (R-V TOP)</b>     | <b>Analog Process Board</b> |
|                    | <b>R778 (B-H PARA)</b>    | <b>Analog Process Board</b> |
|                    | <b>R787 (B-H SAW)</b>     | <b>Analog Process Board</b> |
|                    | <b>R805 (B-V TOP)</b>     | <b>Analog Process Board</b> |

- Close the Lens Iris.
- Open the menu and set the gain to 30 dB.
- Connect the CH1 of the Oscilloscope to E305.
- Turn R776, R785, R803, R767, R774, R783, R801, R778, R787 and R805 to their mechanical center.
- Trigger the Oscilloscope at TP4 on the DSP Board.
- Adjust R776 so that the H Parabola shading of Gch becomes minimum as shown in Fig. 4-6.



**Fig. 4-6**

- Adjust R785 so that the H Sawtooth shading of Gch becomes minimum as shown in Fig. 4-6.
- Trigger the Oscilloscope at TP5 on the DSP Board.
- Adjust R803 so that the V Top shading of Gch becomes minimum as shown in Fig. 4-6.
- Adjust R767 to compensate the width of the V Top shading.
- Repeat to adjust R776, R785, R803 and R767 until the shading of Gch output becomes minimum as shown in Fig. 4-6.
- Connect the CH2 of the Oscilloscope to E105.
- Trigger the Oscilloscope at TP4 on the DSP Board.
- Adjust R774 so that the H Parabola shading of Rch becomes minimum as shown in Fig. 4-6.
- Adjust R783 so that the H Sawtooth shading of Rch becomes minimum as shown in Fig. 4-6.
- Trigger the Oscilloscope at TP5 on the DSP Board.
- Adjust R801 so that the V Top shading of Rch becomes minimum as shown in Fig. 4-6.
- Repeat to adjust R774, R783 and R801 until the shading of Rch output becomes same as Gch.
- Change the connection of the CH2 of the Oscilloscope to E505.
- Trigger the Oscilloscope at TP4 on the DSP Board.
- Adjust R778 so that the H Parabola shading of Bch becomes minimum as shown in Fig. 4-6.
- Adjust R787 so that the H Sawtooth shading of Bch becomes minimum as shown in Fig. 4-6.
- Trigger the Oscilloscope at TP5 on the DSP Board.
- Adjust R805 so that the V Top shading of Bch becomes minimum as shown in Fig. 4-6.
- Repeat to adjust R778, R787 and R805 until the shading of Bch output becomes same as Gch.

### (9). High Sensitivity Shading Adjustment

Test Point: R801 (Observing Point 1)

Analog Process Board

R805 (Observing Point 2)

Analog Process Board

Adjust: R760 (H-TOP)

Analog Process Board

R805 (B-VTOP)

Analog Process Board

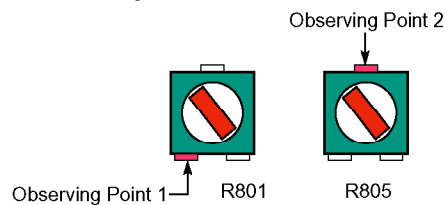
R803 (G-VTOP)

Analog Process Board

R801 (R-VTOP)

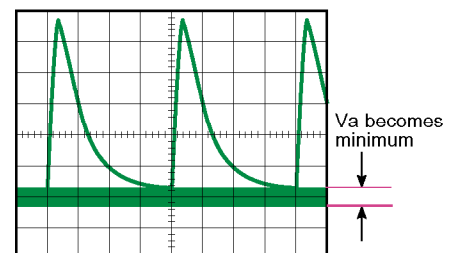
Analog Process Board

- Insert the High Sensitivity Card AW-PB303/AW-PB303E to the AW-E800/AW-E800E.
- Set the Gain to 30 dB and the Accumulation Time to two seconds on the AW-PB303/AW-PB303E.
- Connect the Oscilloscope to the Observing Point 1 (R801) as shown in Fig. 4-7.



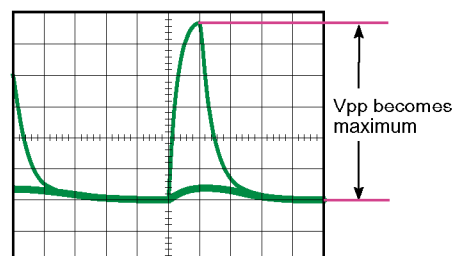
**Fig. 4-7**

- Adjust R760 so that Va voltage becomes minimum as shown in Fig. 4-8.



**Fig. 4-8**

- Change the connection of the Oscilloscope to the Observing Point 2 (R805) as shown in Fig. 4-7.
- Adjust R805 so that Vpp voltage becomes maximum as shown in Fig. 4-9.



**Fig. 4-9**

- Change the connection of the Oscilloscope to the Video Output Connector of the AW-E800/AW-E800E.

- Adjust R803 so that the Shading level becomes minimum as shown in Fig. 4-10.

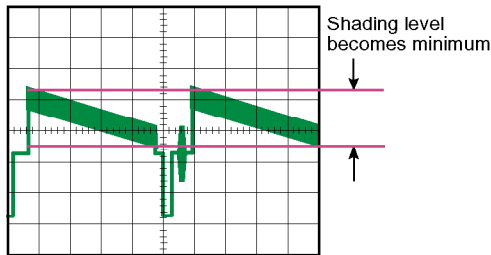


Fig. 4-10

- Adjust R801 so that the Shading level becomes minimum as shown in Fig. 4-10.

#### (10).1. Color Bar Adjustment for AW-E800

**Test Point:** Video Output Connector      **Rear Panel**  
**Adjust:** R190 (Y-BLK)      Encoder Board  
R132 (B-CB)      Encoder Board  
R188 (R-CB)      Encoder Board

- Press the NO/BAR (–) switch for over 5 seconds for the color bar mode.
- Set the Set Up to 0 IRE (0 V).
- Adjust R190 so that the Pedestal of the colour bar signal becomes 0 V as shown in Fig. 4-11.
- Set the Set Up to 7.5 IRE (54 mV) as shown in Fig. 4-11.

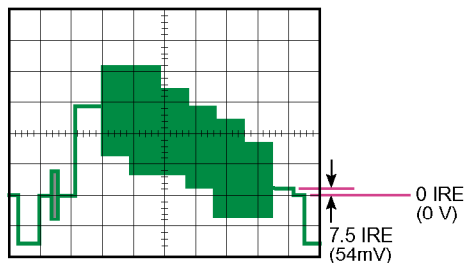


Fig. 4-11

- Adjust R132 and R188 so that the the vector positions at the center as shown in Fig. 4-12.

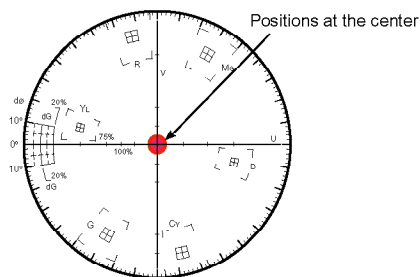


Fig. 4-12

#### (10).2. Colour Bar Adjustment for AW-E800E

**Test Point:** Video Output Connector      **Rear Panel**  
**Adjust:** R190 (Y-BLK)      Encoder Board  
R132 (B-CB)      Encoder Board  
R188 (R-CB)      Encoder Board

- Press the NO/BAR (–) switch for over 5 seconds for the colour bar mode.
- Adjust R190 so that the Pedestal of the colour bar signal becomes 0 V as shown in Fig. 4-13.

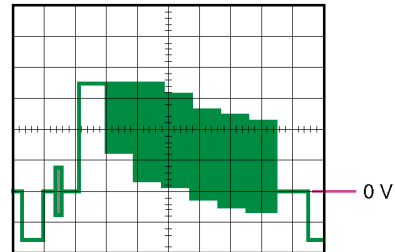


Fig. 4-13

- Adjust R132 and R188 so that the the vector positions at the center as shown in Fig. 4-14.

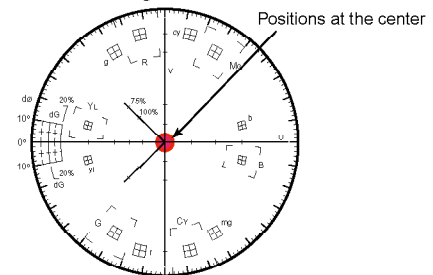


Fig. 4-14

#### (11). SC/H Adjustment for AW-E800E

**Test Point:** Video Output Connector      **Rear Panel**  
**Adjust:** R192 (SC/H)      Encoder Board

- Adjust R192 so that the SC/H vector becomes 0° as shown in Fig. 4-15.

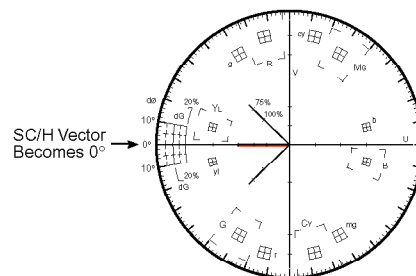
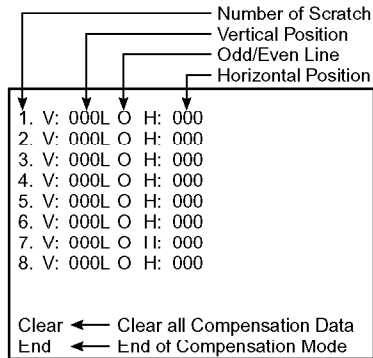


Fig. 4-15

## (12). Manual Blemish Concealment and Correction

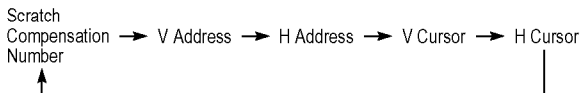
**Test Point:** Video Output Connector      **Rear Panel**  
**Adjust:** MENU (↑) Switch      **Rear Panel**  
ITEM/AWC (↓) Switch      **Rear Panel**

- Turn the power ON while pressing the ITEM/AWC (↓) Switch and NO/BAR (–) Switch on the Rear Panel of the AW-E800.
- The Menu will be displayed as shown in Fig. 4-16 after execute the Scratch Compensation Mode.



**Fig. 4-16**

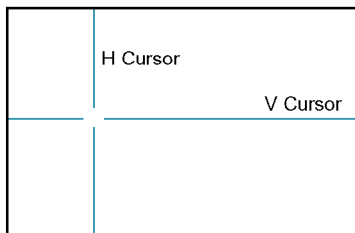
- Select the H Scratch address or V Scratch address by the YES/ABC (+) Switch or NO/BAR (–) Switch. Press the NO/BAR (–) Switch the address has been changed sequentially as shown in Fig. 4-17 (press the YES/ABC (+) Switch changing sequence has been reversed).



**Fig. 4-17**

The Cross type Cursor will be displayed in the V Cursor mode and H Cursor mode.

- With the MENU (↑) Switch or the ITEM/AWC (↓) Switch, select the Vertical Address or the Horizontal Address to be compensated.
- In case of Cursor move, the Scratch Compensation Cursors will be displayed on the Monitor as shown in Fig. 4-18.



**Fig. 4-18**

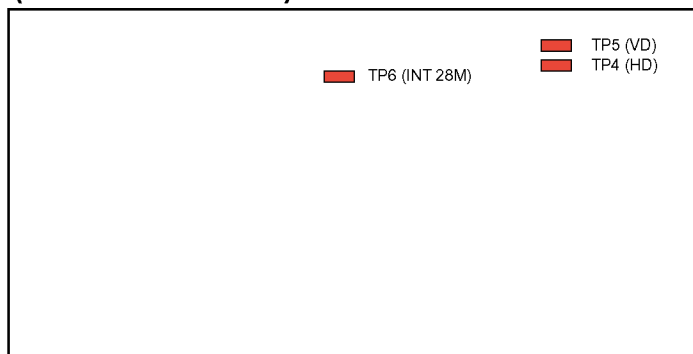
**Note :** The Cursors are not displayed when the vertical and horizontal coordinate have been (0,0) because of out of effective picture field.

- Operate the Cursor position by the MENU (↑) Switch and the ITEM/AWC (↓) Switch.
- The Scratch is eliminated when the cursors intersection coincides with the scratch position.
- For the next scratch, move the Character Blink to be compensated Scratch Number.
- Operate the cursor position by the MENU (↑) and the ITEM/AWC (↓) Switch.
- The scratch is eliminated when coincide the cursors intersection and scratch position.
- The maximum Compensated Scratch Numbers are eight.
- After completion of compensation, move the character blink to "End" position and press the YES/ABC (+) Switch.

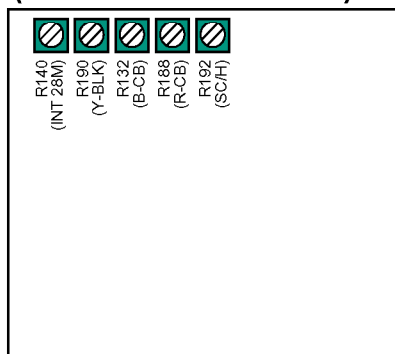


## LOCATION OF TEST POINTS AND ADJUSTING CONTROLS

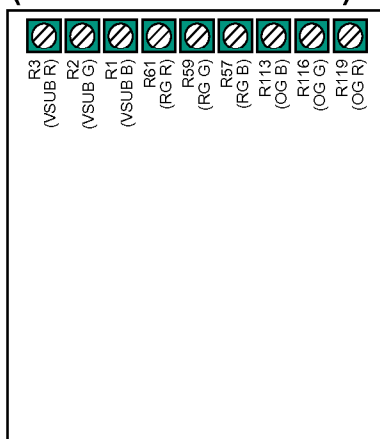
## DSP BOARD (PATTERN SIDE)



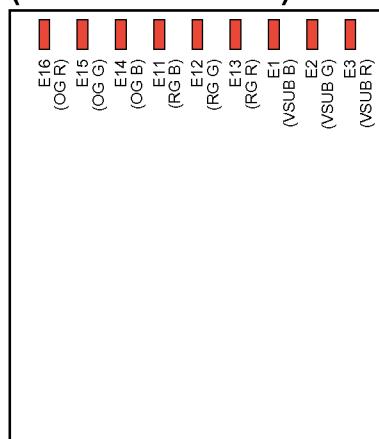
## ENCODER BOARD (COMPONENT SIDE)



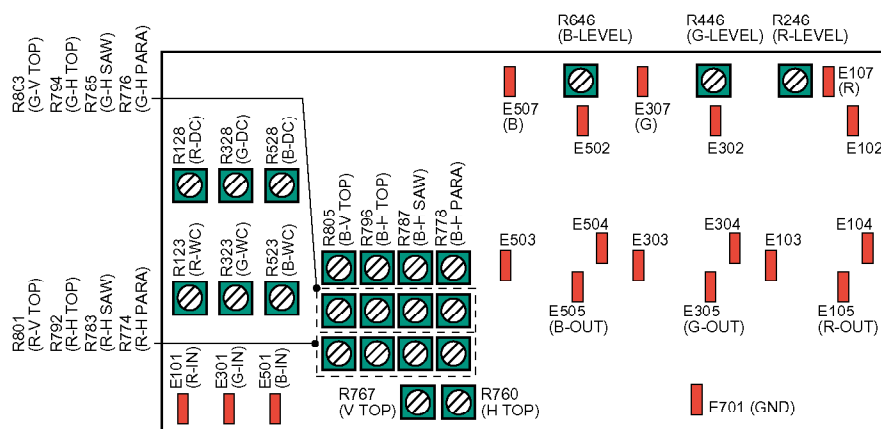
## DRIVE BOARD (COMPONENT SIDE)



**(PATTERN SIDE)**

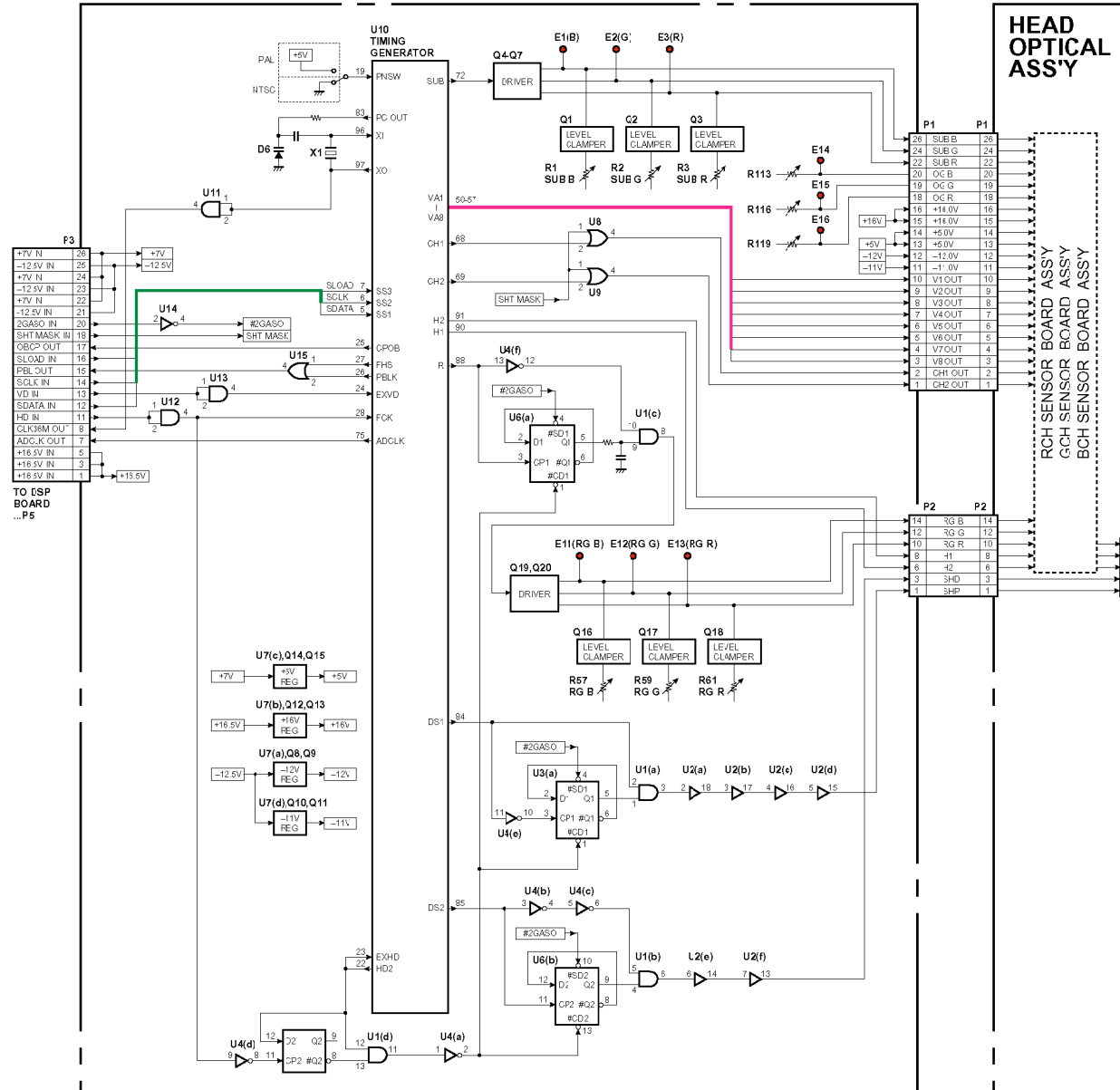


## ANALOG PROCESS BOARD (PATTERN SIDE)

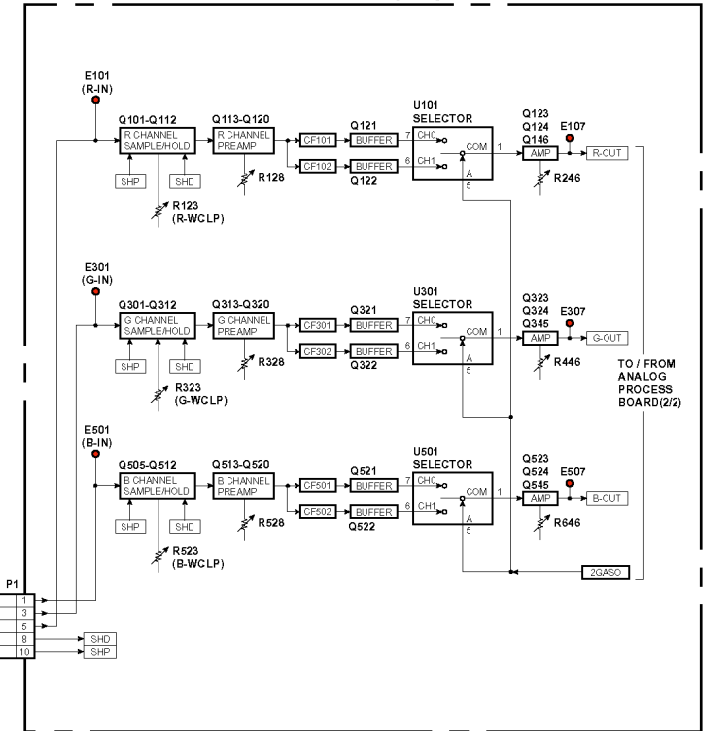


# BLOCK DIAGRAM OF DRIVE BOARD / ANALOG PROCESS BOARD (1/2)

## DRIVE BOARD

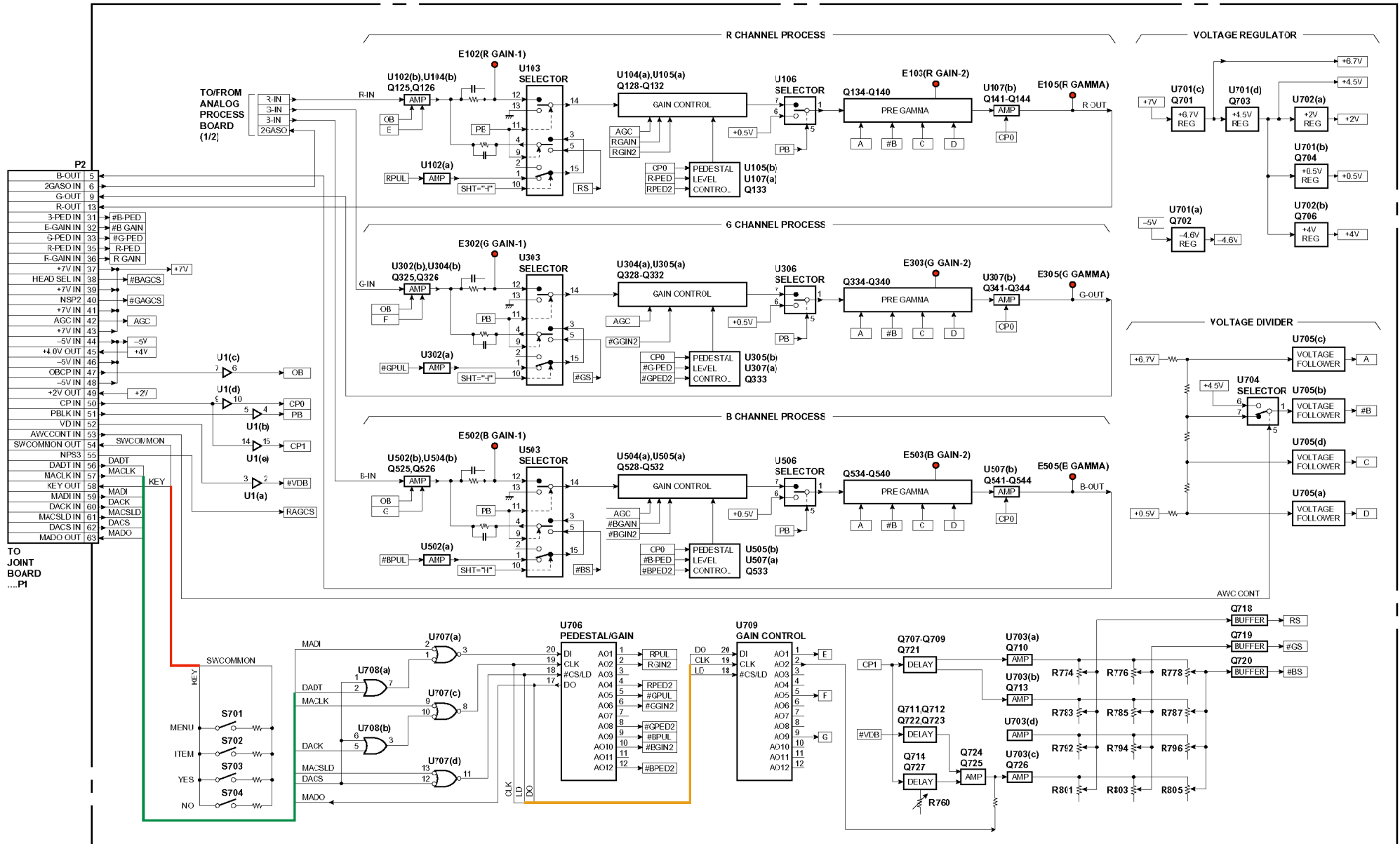


## ANALOG PROCESS BOARD (1/2)



# BLOCK DIAGRAM OF ANALOG PROCESS BOARD (2/2)

## ANALOG PROCESS BOARD (2/2)

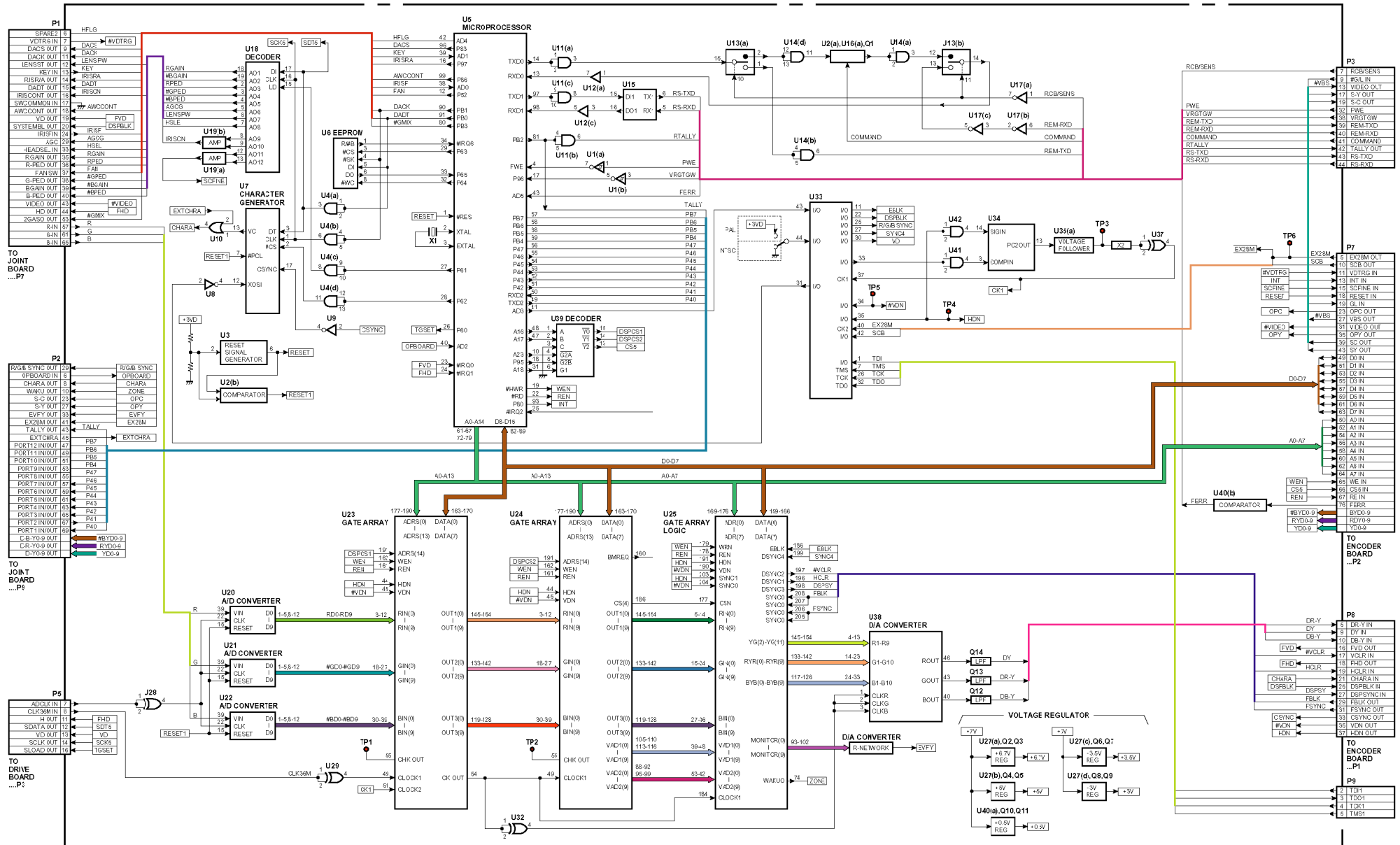


## ENCODER BOARD

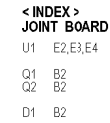


# BLOCK DIAGRAM OF DSP BOARD

## DSP BOARD



## JOINT BOARD

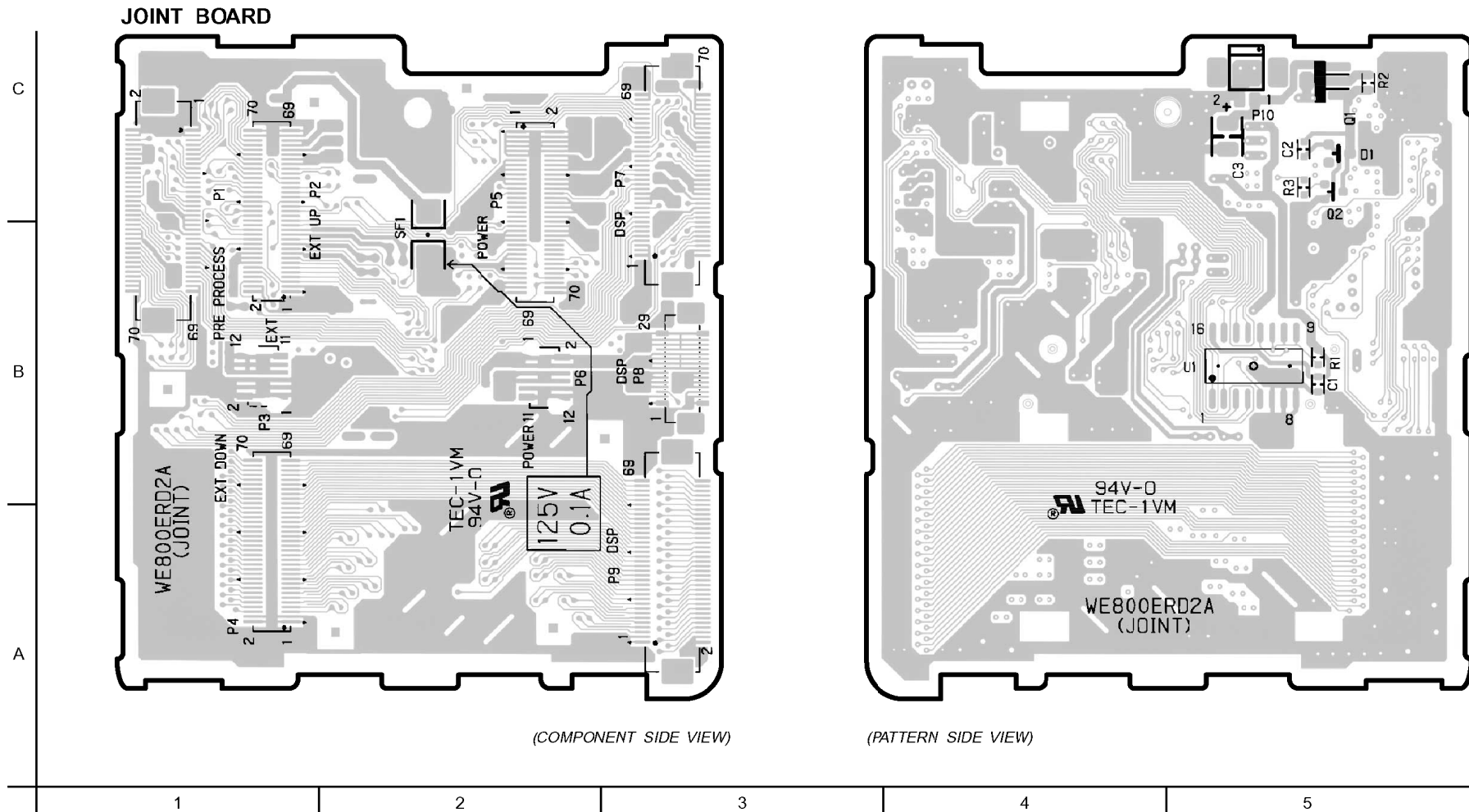


$330 \rightarrow 33 \times 10^0 = 33 \Omega$   
 $561 \rightarrow 56 \times 10^1 = 560 \Omega$   
 $123 \rightarrow 12 \times 10^3 = 12k \Omega$   
 $0R00 = 0 \Omega$

$$\begin{aligned} 820 &\rightarrow 82 \times 10^0 = 82 \text{ pF} \\ 102 &\rightarrow 10 \times 10^2 = 1000 \text{ pF} = 0.001 \mu\text{F} \\ 104 &\rightarrow 10 \times 10^4 = 100000 \text{ pF} = 0.1 \mu\text{F} \end{aligned}$$

010  $\rightarrow 1 \times 10^0 = 1 \mu\text{l}$   
 8R2  $\rightarrow 8.2 \times 10^0 = 8.2 \mu\text{l}$   
 101  $\rightarrow 10 \times 10^1 = 100 \mu\text{l}$

# CONDUCTOR VIEW OF JOINT BOARD

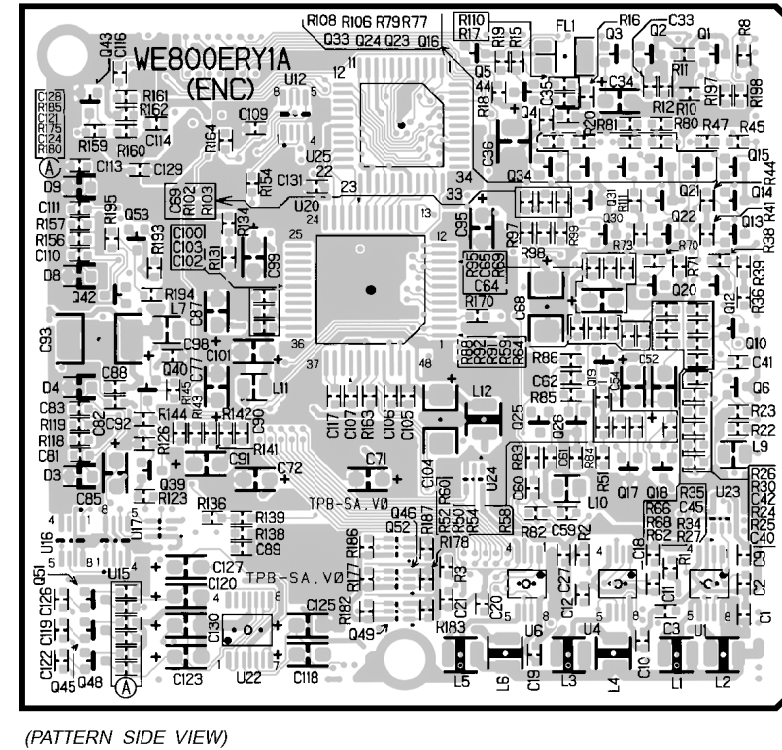
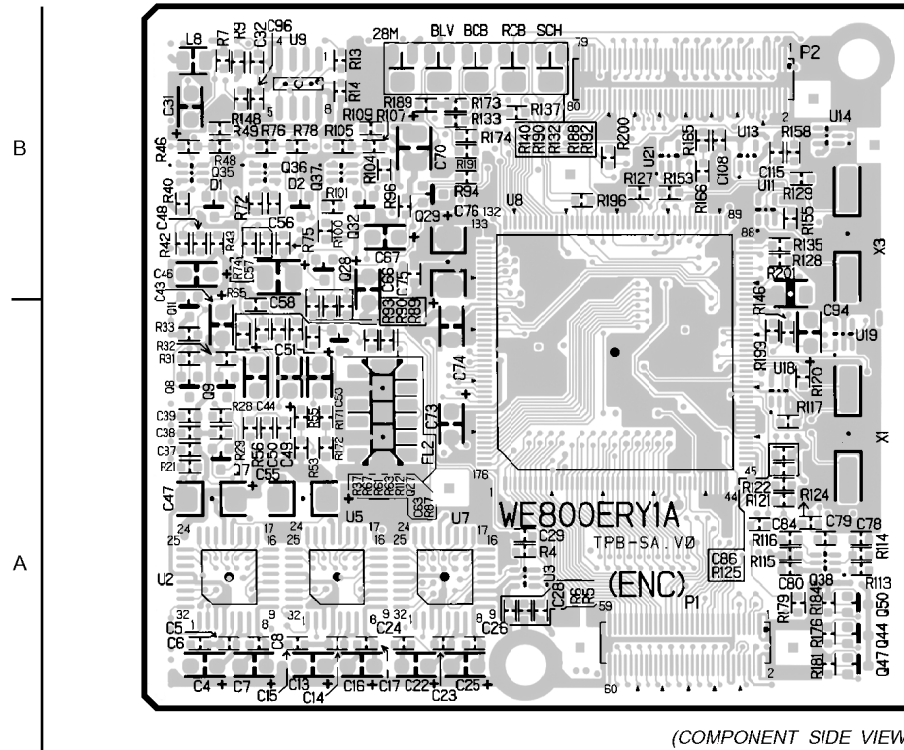


<INDEX>  
JOINT BOARD

U1 B5  
Q1 C5  
D1 C5

# CONDUCTOR VIEW OF ENCODER BOARD

## ENCODER BOARD



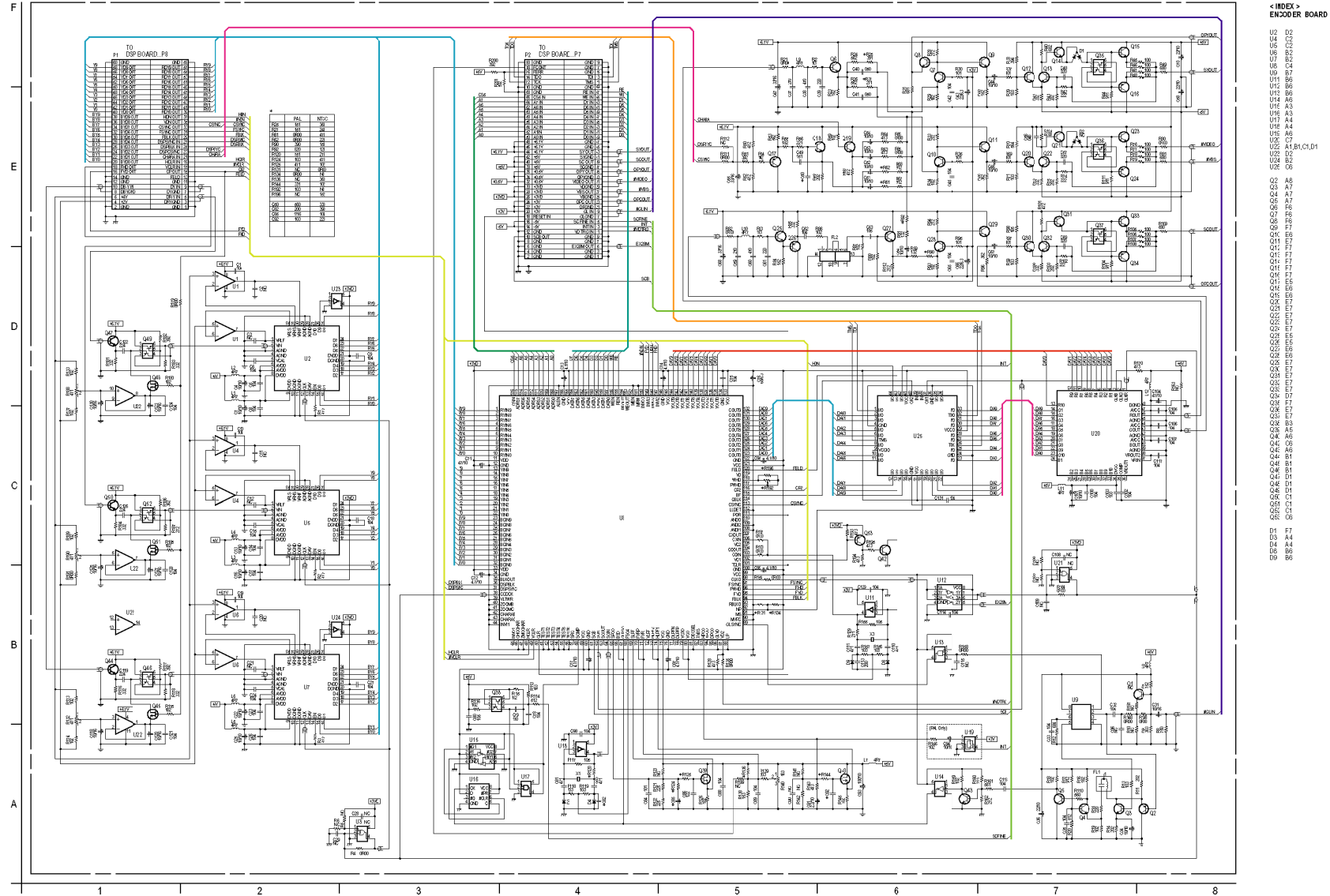
### <INDEX> ENC BOARD

|     |    |     |    |     |    |     |    |     |    |    |    |
|-----|----|-----|----|-----|----|-----|----|-----|----|----|----|
| U1  | A4 | J23 | A4 | Q2  | B4 | Q21 | B4 | Q40 | A3 | D1 | B1 |
| U2  | A1 | J24 | A3 | Q3  | B4 | Q22 | B4 | Q43 | B3 | D3 | A2 |
| U4  | A4 | J25 | B3 | Q4  | B3 | Q23 | B4 | Q44 | A2 | D4 | A2 |
| U5  | A1 |     |    | Q5  | B3 | Q24 | B4 | Q45 | A3 | D8 | B2 |
| U6  | A3 |     |    | Q6  | A4 | Q25 | A3 | Q46 | A3 | D9 | B2 |
| U7  | A1 |     |    | Q7  | A1 | Q26 | A3 | Q47 | A2 |    |    |
| U8  | B1 |     |    | Q8  | A1 | Q27 | A1 | Q48 | A3 |    |    |
| U9  | B1 |     |    | Q9  | A1 | Q28 | B1 | Q49 | A3 |    |    |
| U11 | B2 |     |    | Q10 | A4 | Q29 | B1 | Q50 | A2 |    |    |
| U12 | B3 |     |    | Q11 | A1 | Q30 | B4 | Q51 | A3 |    |    |
| U13 | B2 |     |    | Q12 | B3 | Q31 | B4 | Q52 | A3 |    |    |
| U14 | B2 |     |    | Q13 | B4 | Q32 | B1 |     |    |    |    |
| U15 | A3 |     |    | Q14 | B4 | Q33 | B4 |     |    |    |    |
| U16 | A2 |     |    | Q15 | B4 | Q34 | B3 |     |    |    |    |
| U17 | A3 |     |    | Q16 | B4 | Q35 | B1 |     |    |    |    |
| U18 | A2 |     |    | Q17 | A4 | Q36 | B1 |     |    |    |    |
| U19 | A2 |     |    | Q18 | A4 | Q37 | B1 |     |    |    |    |
| U20 | B3 |     |    | Q19 | A4 | Q38 | A2 |     |    |    |    |
| U22 | A3 |     |    | Q20 | B4 | Q39 | A3 |     |    |    |    |



# SCHEMATIC DIAGRAM OF ENCODER BOARD

## ENCODER BOARD



Note: The value indicated in the schematic diagram should be read as follows:



<Example>

For Resistor:

330  $\rightarrow 33 \times 10^3 = 33k\Omega$   
681  $\rightarrow 68 \times 10^1 = 680\Omega$   
123  $\rightarrow 12 \times 10^2 = 12k\Omega$   
0R00 =  $0\Omega$

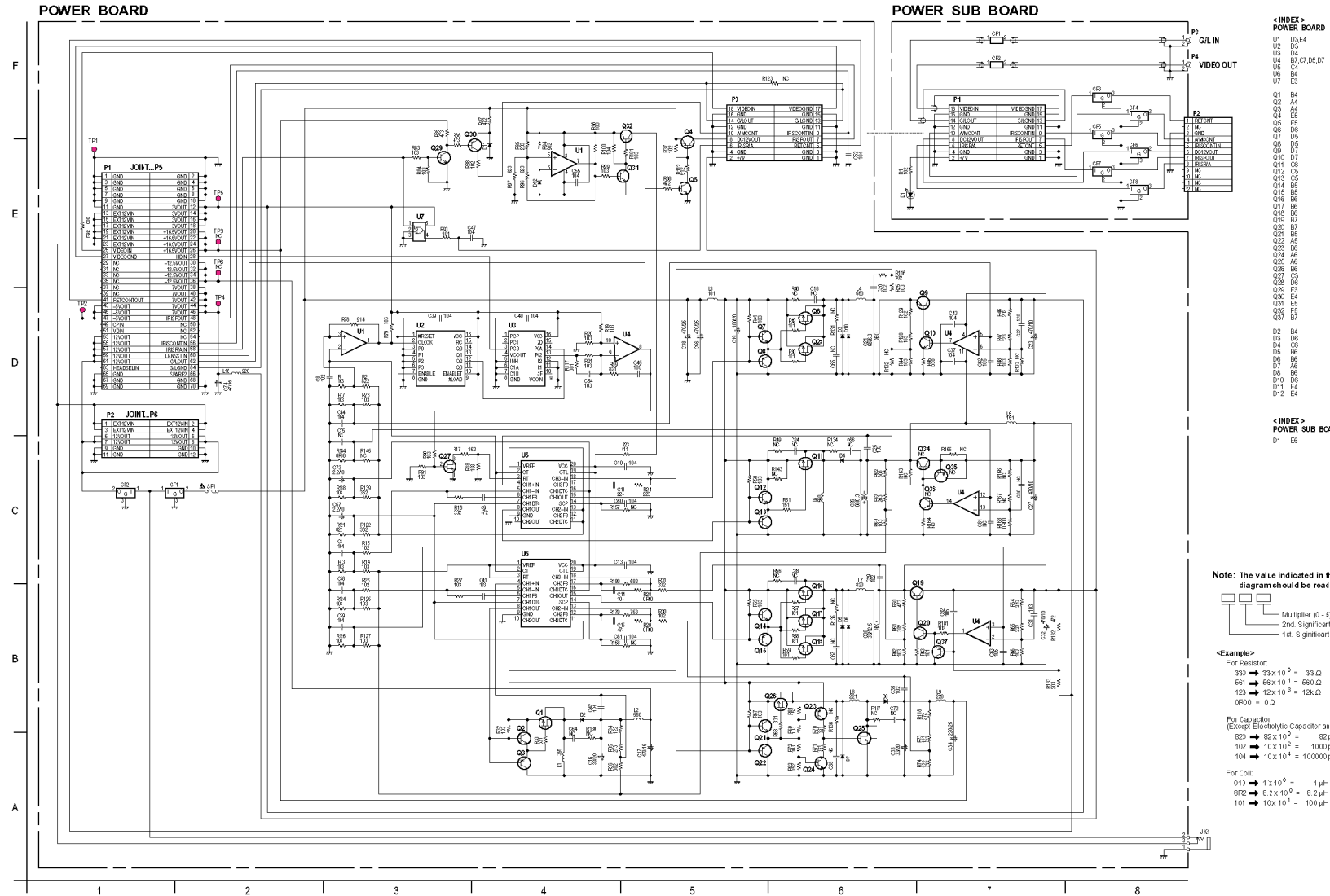
For Capacitor  
(Except Electrolytic Capacitor and Tantalum Capacitor):  
820  $\rightarrow 82 \times 10^0 = 82pF$   
102  $\rightarrow 10 \times 10^2 = 1000pF = 0.001\mu F$   
104  $\rightarrow 10 \times 10^4 = 100000pF = 0.1\mu F$

For Coil:  
010  $\rightarrow 1 \times 10^0 = 1\mu H$   
822  $\rightarrow 82 \times 10^2 = 8.2\mu H$   
121  $\rightarrow 12 \times 10^1 = 120\mu H$

<INDEX>  
ENCODER BOARD

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U4: 02  
U6: 02  
U7: 02  
U8: 02  
U9: 02  
U10: 02  
U11: 02  
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U95: 02  
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U97: 02  
U98: 02  
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U100: 02

# SCHEMATIC DIAGRAM OF POWER BOARD / POWER SUB BOARD

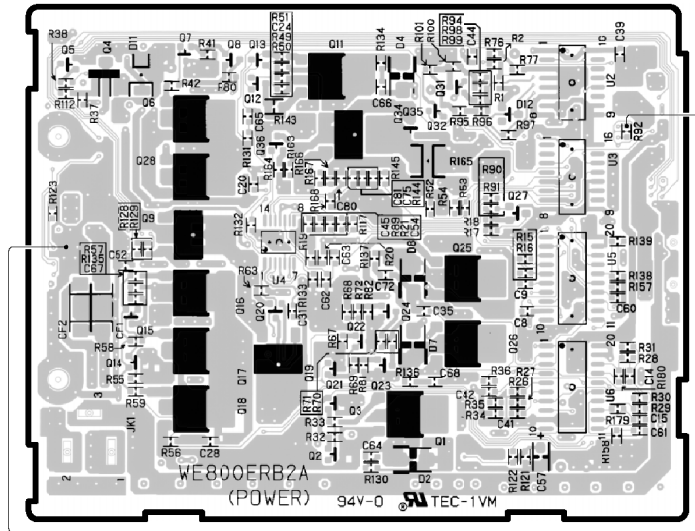


## Important safety notice

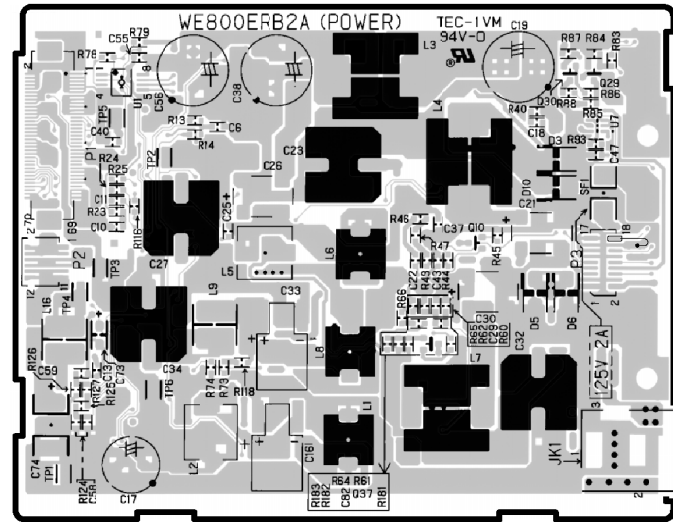
Components Identified by "▲" mark have special characteristics for safety.  
When replacing any of these components, use only manufacturer's specified parts.

# CONDUCTOR VIEW OF POWER BOARD / POWER SUB BOARD

POWER BOARD

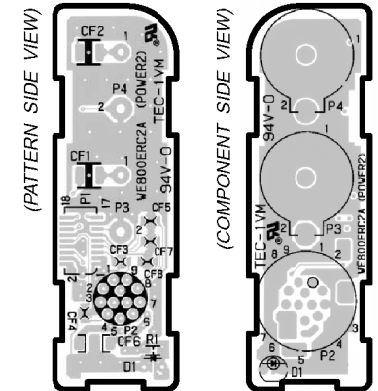


(PATTERN SIDE VIEW)



(COMPONENT SIDE VIEW)

POWER SUB BOARD



(PATTERN SIDE VIEW)

(COMPONENT SIDE VIEW)

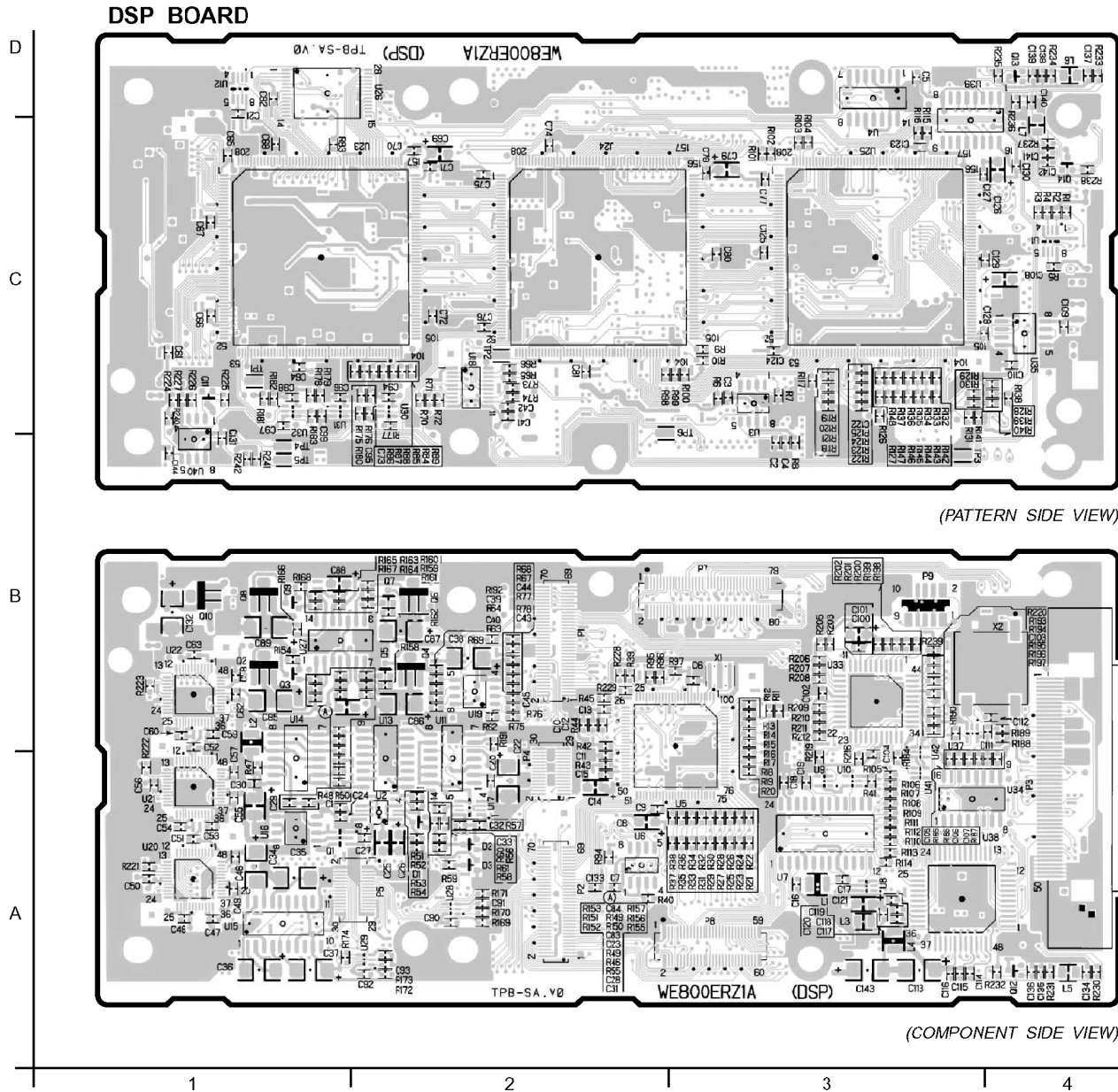
## <INDEX> POWER BOARD

|    |    |     |    |     |    |     |    |
|----|----|-----|----|-----|----|-----|----|
| U1 | B3 | Q1  | A2 | Q18 | A1 | D2  | A2 |
| U2 | B2 | Q2  | A2 | Q19 | A1 | D3  | B4 |
| U3 | B2 | Q3  | A2 | Q20 | A1 | D4  | B2 |
| U4 | A1 | Q4  | B1 | Q21 | A2 | D5  | A4 |
| U5 | A2 | Q5  | B1 | Q22 | A2 | D6  | A4 |
| U6 | A2 | Q6  | B1 | Q23 | A2 | D7  | A2 |
| U7 | B4 | Q7  | B1 | Q24 | A2 | D8  | A2 |
|    |    | Q8  | B1 | Q25 | A2 | D10 | B4 |
|    |    | Q9  | B1 | Q26 | A2 | D11 | B1 |
|    |    | Q10 | A4 | Q27 | B2 | D12 | B2 |
|    |    | Q11 | B2 | Q28 | B1 |     |    |
|    |    | Q12 | B1 | Q29 | B4 |     |    |
|    |    | Q14 | A1 | Q30 | B4 |     |    |
|    |    | Q15 | A1 | Q31 | B2 |     |    |
|    |    | Q16 | A1 | Q32 | B2 |     |    |
|    |    | Q17 | A1 | Q37 | A4 |     |    |

## <INDEX> POWER SUB BOARD

|    |    |
|----|----|
| D1 | A6 |
|----|----|

# CONDUCTOR VIEW OF DSP BOARD



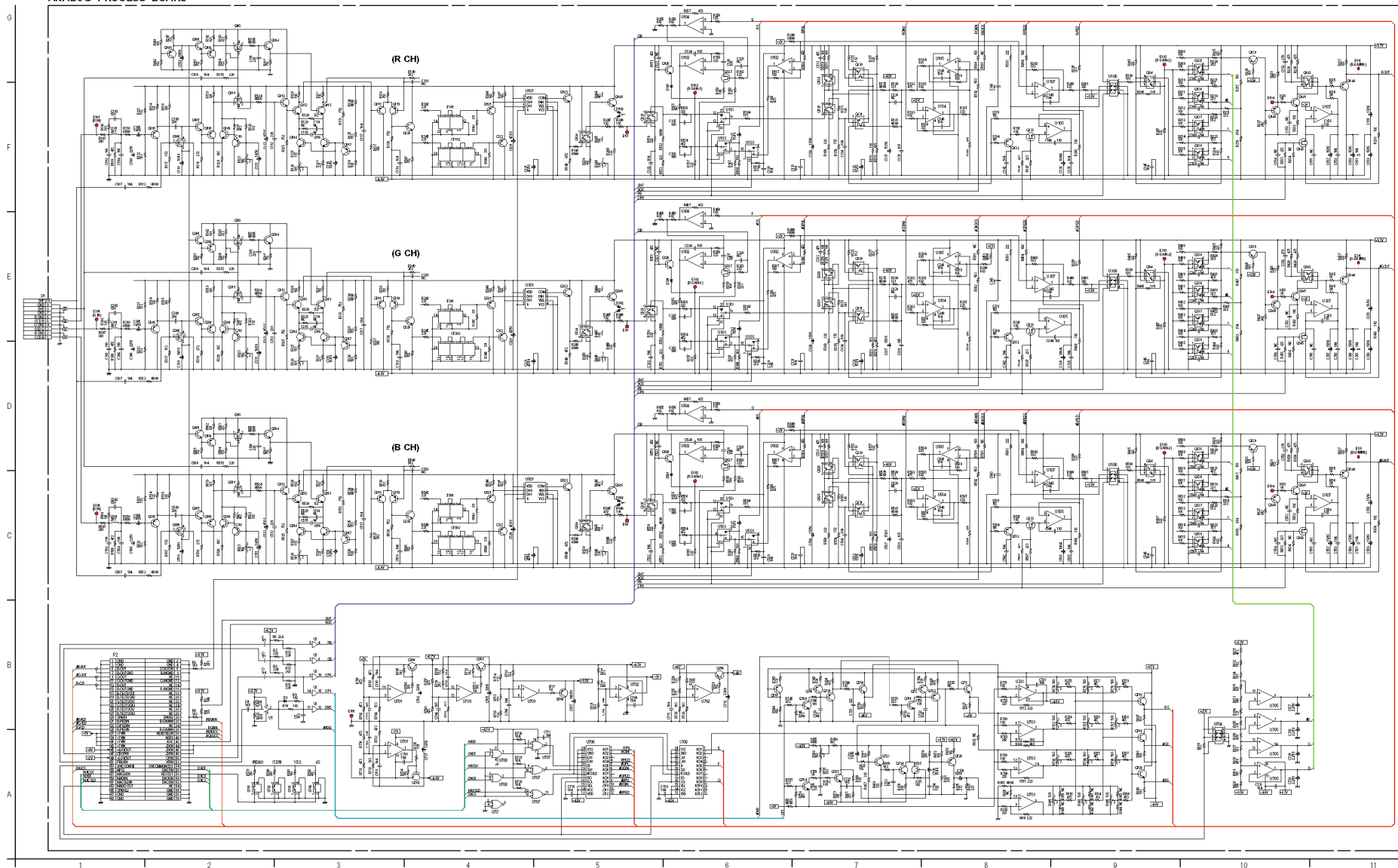
## <INDEX> DSP BOARD

|     |    |
|-----|----|
| U1  | C4 |
| U2  | A2 |
| U3  | C3 |
| U4  | D3 |
| U5  | A3 |
| U6  | A2 |
| U7  | A3 |
| U8  | A3 |
| U9  | A3 |
| U10 | B2 |
| U11 | D1 |
| U12 | B2 |
| U13 | A1 |
| U14 | A1 |
| U15 | A2 |
| U16 | C2 |
| U17 | B2 |
| U18 | A1 |
| U19 | B1 |
| U20 | C2 |
| U21 | B1 |
| U22 | C3 |
| U23 | C3 |
| U24 | C3 |
| U25 | C1 |
| U26 | A2 |
| U27 | B3 |
| U28 | A4 |
| U29 | C4 |
| U30 | B3 |
| U31 | A4 |
| U32 | D3 |
| U33 | B1 |
| U34 | A3 |
| U35 | A3 |
| U36 | A1 |
| U37 | B2 |
| U38 | B1 |
| U39 | C1 |
| U40 | A4 |
| U41 | D4 |
| U42 | C4 |
| Q1  | A1 |
| Q2  | B1 |
| Q3  | B2 |
| Q4  | B2 |
| Q5  | B2 |
| Q6  | B1 |
| Q7  | B1 |
| Q8  | C1 |
| Q9  | A1 |
| Q10 | A4 |
| Q11 | D4 |
| Q12 | A2 |
| Q13 | A2 |
| Q14 | A2 |



# SCHEMATIC DIAGRAM OF ANALOG PROCESS BOARD

## ANALOG PROCESS BOARD



Note: The value indicated in the schematic diagram should be read as follows:

Multiplier (C - 0)  
2nd Significant Digit (C - 9)  
1st Significant Digit (1 - 9)

Example:  
For Resistor:  
330  $\rightarrow 33 \times 10^0 = 33 \Omega$   
680  $\rightarrow 68 \times 10^1 = 680 \Omega$   
120  $\rightarrow 12 \times 10^2 = 1200 \Omega$   
050  $\rightarrow 0.5 \Omega$

For Capacitor:  
(Electrolytic Capacitor and Tantalum Capacitor):  
100  $\rightarrow 10 \times 10^2 = 1000 \mu F$   
100  $\rightarrow 10 \times 10^2 = 1000 \mu F$   
100  $\rightarrow 10 \times 10^2 = 1000 \mu F$

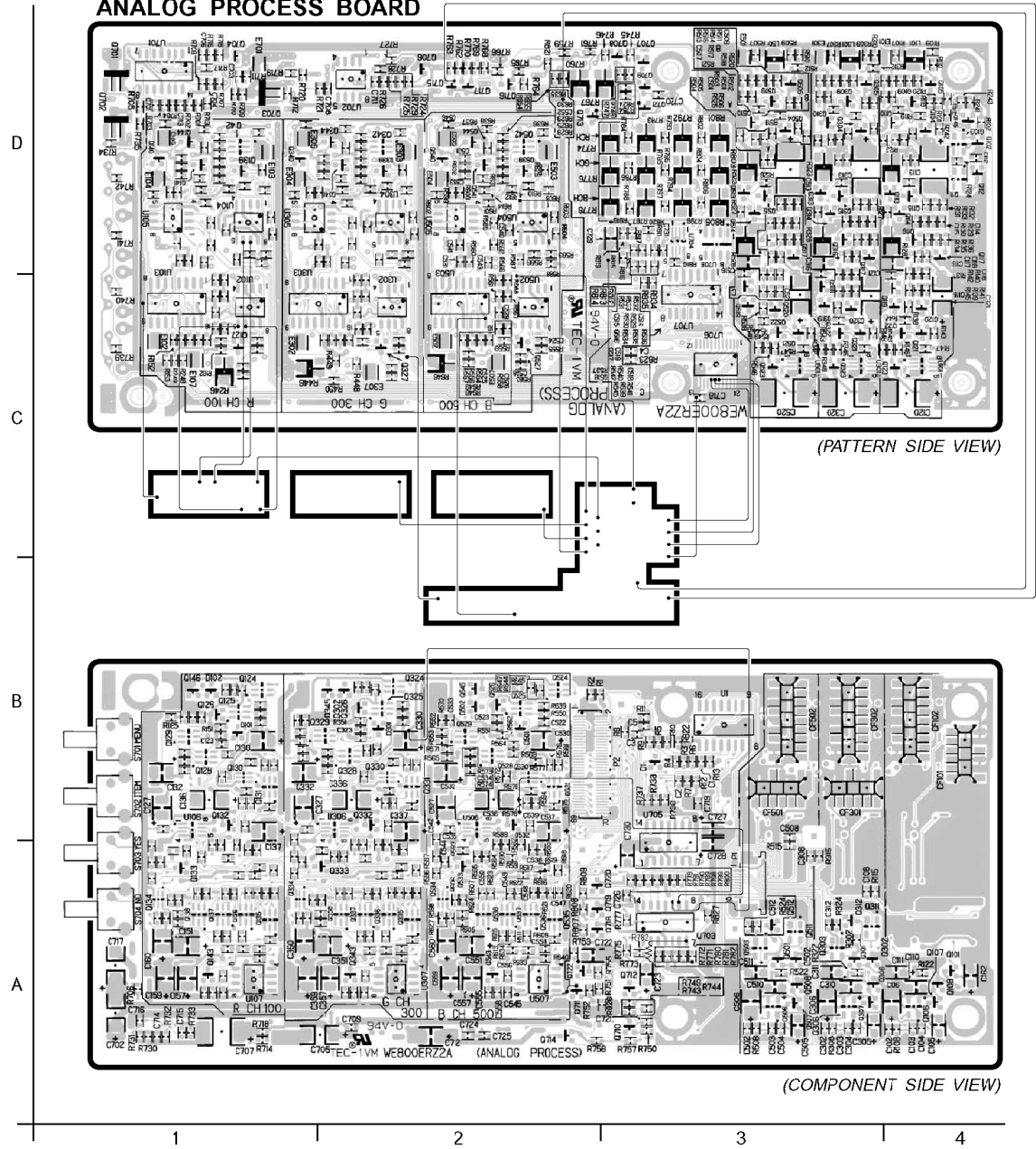
For Coil:  
010  $\rightarrow 1 \times 10^{-3} = 1 \mu H$   
820  $\rightarrow 82 \times 10^{-3} = 82 \mu H$   
901  $\rightarrow 90 \times 10^{-3} = 90 \mu H$

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# CONDUCTOR VIEW OF ANALOG PROCESS BOARD

## ANALOG PROCESS BOARD

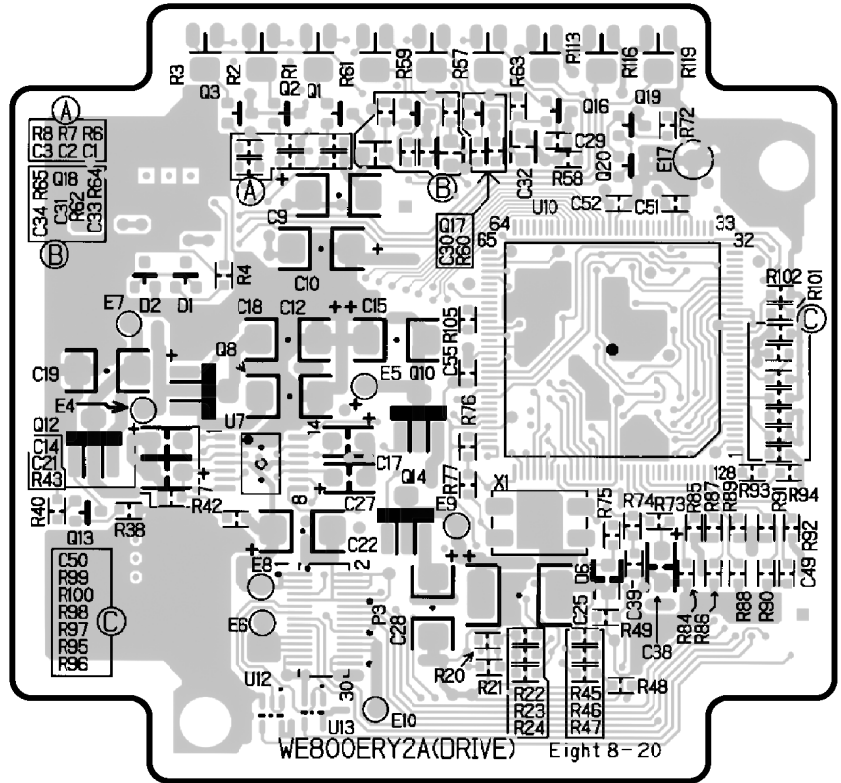


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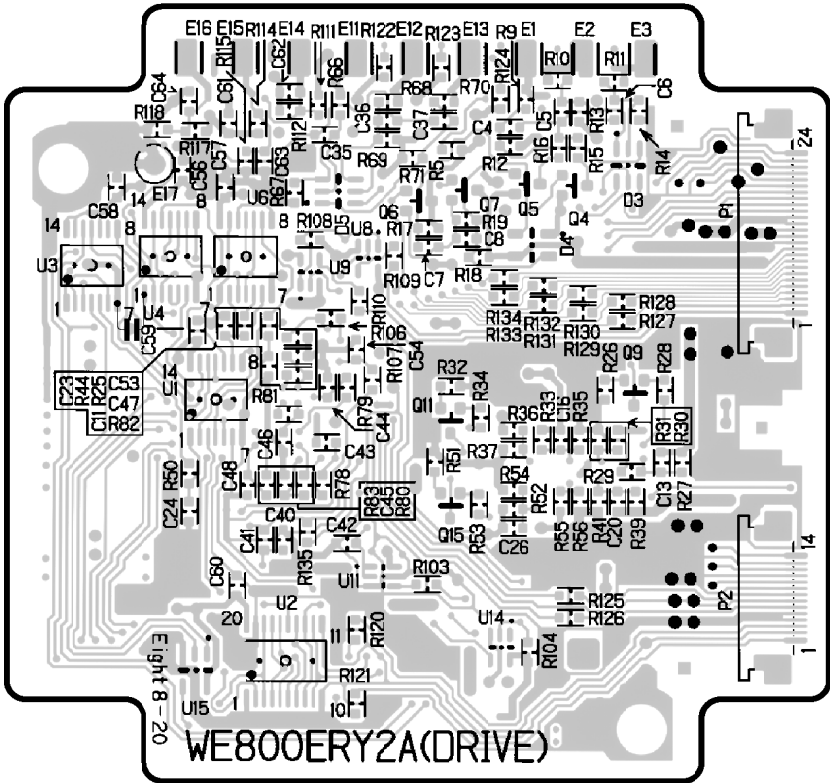
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| U101 | C4 | Q31F | D9 | Q721 | D3 |
| U102 | C1 | Q31E | C3 | Q722 | A2 |
| U103 | C1 | Q31E | C3 |      |    |
| U104 | C1 | Q32C | C3 | D1   | B3 |
| U105 | C1 | Q321 | C3 | D101 | B1 |
| U106 | B1 | Q322 | C3 | D102 | B1 |
| U107 | A1 | Q32C | C3 | D301 | B2 |
| U301 | C3 | Q324 | B2 | D302 | B2 |
| U302 | C2 | Q32E | B2 | D501 | B2 |
| U303 | C1 | Q32E | B2 | D502 | B2 |
| U304 | D2 | Q327 | C2 |      |    |
| U305 | D1 | Q32E | B2 |      |    |
| U306 | B2 | Q32S | B2 |      |    |
| U307 | A2 | Q33C | B2 |      |    |
| U501 | C3 | Q331 | B2 |      |    |
| U502 | C2 | Q33C | B2 |      |    |
| U503 | C2 | Q33C | A2 |      |    |
| U504 | D2 | Q33A | A1 |      |    |
| U505 | D2 | Q33E | A2 |      |    |
| U506 | B2 | Q33E | A2 |      |    |
| U507 | A2 | Q337 | A2 |      |    |
| U701 | D1 | Q33E | A2 |      |    |
| U702 | D2 | Q33E | D2 |      |    |
| U703 | A3 | Q34C | D3 |      |    |
| U704 | D3 | Q341 | D2 |      |    |
| U705 | B3 | Q34C | D2 |      |    |
| U706 | C3 | Q34C | A2 |      |    |
| U707 | C3 | Q34A | D2 |      |    |
| U708 | D3 | Q34E | B2 |      |    |
| Q101 | A4 | Q501 | A3 |      |    |
| Q102 | D4 | Q50C | A3 |      |    |
| Q103 | D4 | Q50A | D9 |      |    |
| Q104 | D4 | Q50E | D9 |      |    |
| Q105 | D4 | Q50E | A3 |      |    |
| Q106 | A4 | Q507 | A3 |      |    |
| Q107 | A4 | Q50E | A3 |      |    |
| Q108 | A4 | Q511 | A3 |      |    |
| Q111 | D4 | Q51C | A3 |      |    |
| Q112 | D4 | Q51C | D9 |      |    |
| Q113 | D4 | Q514 | D9 |      |    |
| Q114 | D4 | Q51E | D9 |      |    |
| Q115 | D4 | Q51E | C3 |      |    |
| Q116 | D4 | Q517 | D9 |      |    |
| Q117 | D4 | Q51E | C3 |      |    |
| Q118 | C4 | Q51C | C3 |      |    |
| Q119 | C4 | Q52C | C3 |      |    |
| Q120 | C4 | Q521 | C3 |      |    |
| Q121 | C4 | Q52C | C3 |      |    |
| Q122 | C4 | Q52C | C3 |      |    |
| Q123 | C4 | Q52A | B2 |      |    |
| Q124 | B1 | Q52E | B2 |      |    |
| Q125 | B1 | Q52E | B2 |      |    |
| Q126 | B1 | Q527 | C2 |      |    |
| Q127 | C1 | Q52E | B2 |      |    |
| Q128 | B1 | Q52S | B2 |      |    |
| Q129 | B1 | Q53C | B2 |      |    |
| Q130 | B1 | Q531 | B2 |      |    |
| Q131 | B1 | Q53C | B2 |      |    |
| Q132 | B1 | Q53C | A2 |      |    |
| Q133 | A1 | Q53A | A2 |      |    |
| Q134 | A1 | Q53E | A2 |      |    |
| Q135 | A1 | Q53E | A2 |      |    |
| Q136 | A1 | Q537 | A2 |      |    |
| Q137 | A1 | Q53E | A2 |      |    |
| Q138 | A1 | Q53E | C2 |      |    |
| Q139 | D1 | Q54C | C2 |      |    |
| Q140 | D1 | Q541 | C2 |      |    |
| Q141 | D1 | Q54C | C2 |      |    |
| Q142 | C1 | Q54C | A2 |      |    |
| Q143 | A1 | Q54A | D2 |      |    |
| Q144 | D1 | Q54E | B2 |      |    |
| Q145 | D4 | Q701 | D1 |      |    |
| Q146 | B1 | Q70C | D1 |      |    |
| Q301 | A3 | Q70C | D1 |      |    |
| Q302 | A3 | Q70A | D1 |      |    |
| Q303 | A3 | Q70C | D2 |      |    |
| Q304 | D3 | Q707 | D9 |      |    |
| Q305 | D3 | Q70E | D9 |      |    |
| Q306 | A3 | Q70S | D9 |      |    |
| Q307 | A3 | Q71C | A3 |      |    |
| Q308 | A3 | Q711 | A2 |      |    |
| Q311 | A3 | Q71C | A3 |      |    |
| Q312 | A3 | Q71C | D2 |      |    |
| Q313 | D3 | Q71A | A2 |      |    |
| Q314 | D3 | Q71E | A3 |      |    |
| Q315 | D3 | Q71E | A3 |      |    |

# CONDUCTOR VIEW OF DRIVE BOARD

## DRIVE BOARD



(COMPONENT SIDE VIEW)



(PATTERN SIDE VIEW)

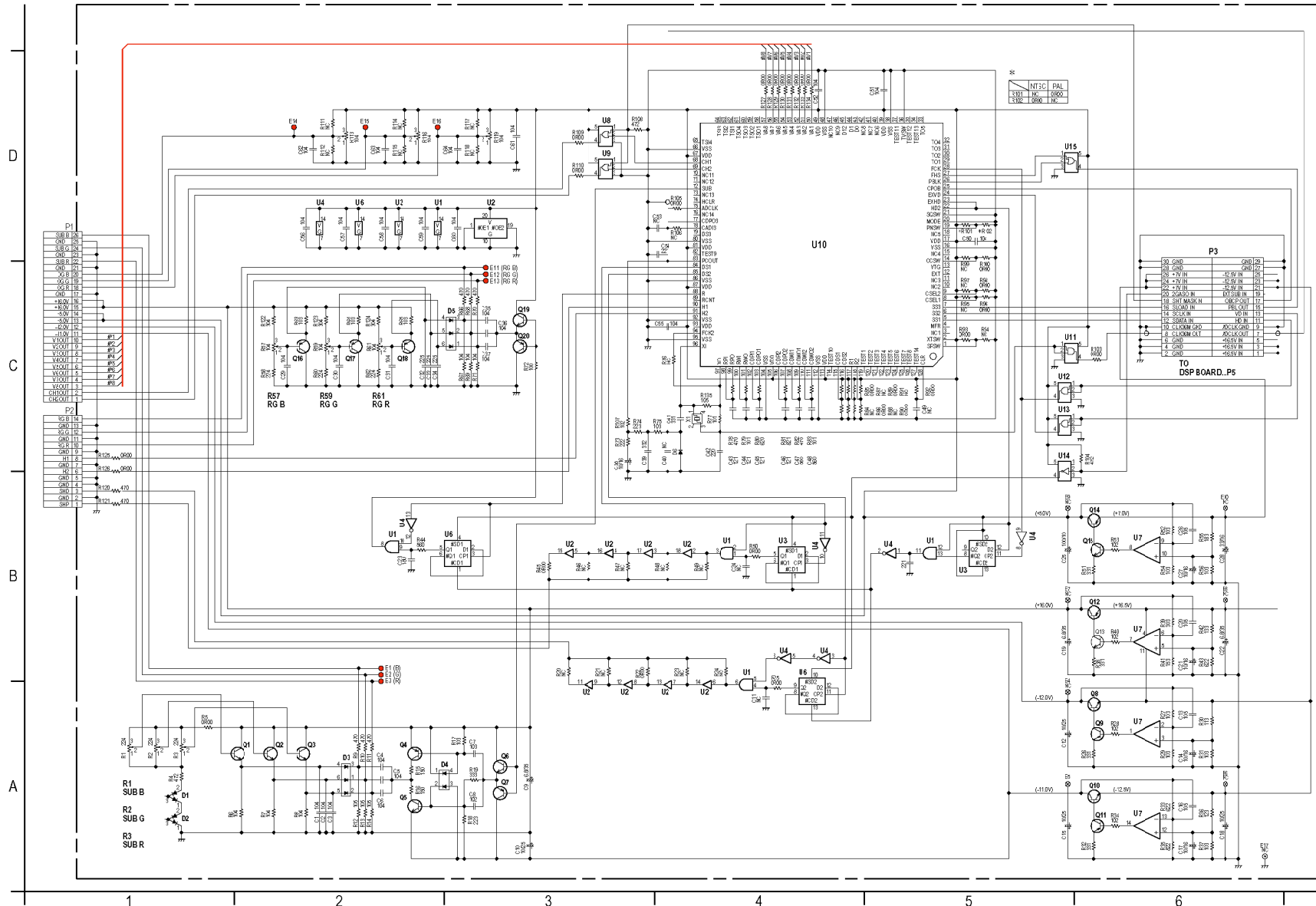
### <INDEX> DRIVE BOARD

|     |       |     |       |     |       |    |    |
|-----|-------|-----|-------|-----|-------|----|----|
| U1  | A3/B3 | Q1  | B1    | Q15 | A3    | J1 | B1 |
| U2  | A3    | Q2  | B1    | Q16 | B2    | J2 | B1 |
| U3  | B3    | Q3  | B1    | Q17 | B2    | J3 | B4 |
| U4  | B3    | Q4  | B4    | Q18 | B1/B2 | J4 | B4 |
| U6  | B3    | Q5  | B4    | Q19 | B2    | J5 | B3 |
| U7  | A1    | Q6  | B3    | Q20 | B2    | J6 | A2 |
| U8  | B3    | Q7  | B3    |     |       |    |    |
| U9  | B3    | Q8  | A1/B1 |     |       |    |    |
| U10 | A2/B2 | Q9  | B4    |     |       |    |    |
| U11 | A3    | Q10 | A1/A2 |     |       |    |    |
| U12 | A1    | Q11 | A3    |     |       |    |    |
| U13 | A1    | Q12 | A1    |     |       |    |    |
| U14 | A3/A4 | Q13 | A1    |     |       |    |    |
| U15 | A3    | Q14 | A1/A2 |     |       |    |    |



# SCHEMATIC DIAGRAM OF DRIVE BOARD

## DRIVE BOARD

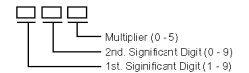


<INDEX>  
DRIVE BOARD  
L1 A1 B2 B4 B5 D2  
L2 A3 A4 B3 B4 D3  
L3 B4 B5 D2  
L4 B2 B4 B5 D2  
L6 A4 B3 D2  
L7 A6 B6  
L8 D3  
L9 D3  
L10 D4  
L11 C5  
L12 C5  
L13 C5  
L14 C5  
L15 D5

Q1 A2  
Q2 A2  
Q3 A2  
Q4 A2  
Q5 A2  
Q6 A3  
Q7 A3  
Q8 A6  
Q9 A6  
Q10 A6  
Q11 A6  
Q12 B6  
Q13 B6  
Q14 B6  
Q15 B6  
Q16 C2  
Q17 C2  
Q18 C2  
Q19 C3  
Q20 C3

D1 A1  
D2 A1  
D3 A2  
D4 A2  
D5 C3  
D6 C4  
D7 C4  
D8 C4

Note: The value indicated in the schematic diagram should be read as follows:



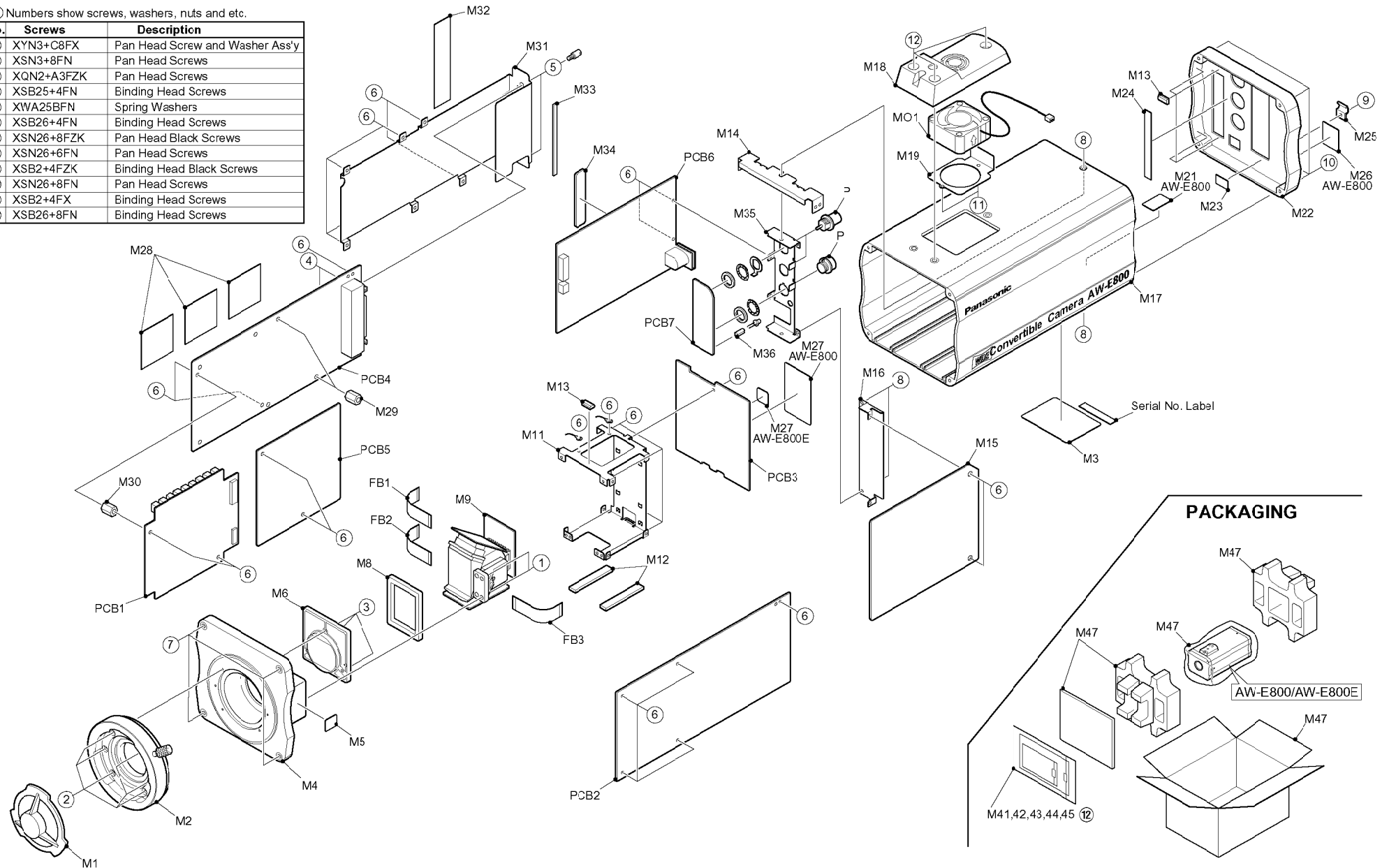
<Example>  
For Resistor:  
330  $\rightarrow 33 \times 10^0 = 33 \Omega$   
561  $\rightarrow 56 \times 10^1 = 560 \Omega$   
123  $\rightarrow 12 \times 10^3 = 12k \Omega$   
0R00 = 0  $\Omega$   
For Capacitor  
(Except Electrolytic Capacitor and Tantalum Capacitor):  
820  $\rightarrow 82 \times 10^0 = 82 pF$   
102  $\rightarrow 10 \times 10^2 = 1000 pF = 0.001 \mu F$   
104  $\rightarrow 10 \times 10^4 = 10000 pF = 0.01 \mu F$

For Coil:  
010  $\rightarrow 1 \times 10^0 = 1 \mu H$   
8R2  $\rightarrow 8.2 \times 10^0 = 8.2 \mu H$   
101  $\rightarrow 10 \times 10^1 = 100 \mu H$

## EXPLODED VIEW

○ Numbers show screws, washers, nuts and etc.

| No. | Screws     | Description                     |
|-----|------------|---------------------------------|
| ①   | XYN3+C8FX  | Pan Head Screw and Washer Ass'y |
| ②   | XSN3+8FN   | Pan Head Screws                 |
| ③   | XQN2+A3FZK | Pan Head Screws                 |
| ④   | XSB25+4FN  | Binding Head Screws             |
| ⑤   | XWA25BFN   | Spring Washers                  |
| ⑥   | XSB26+4FN  | Binding Head Screws             |
| ⑦   | XSN26+8FZK | Pan Head Black Screws           |
| ⑧   | XSN26+6FN  | Pan Head Screws                 |
| ⑨   | XSB2+4FZK  | Binding Head Black Screws       |
| ⑩   | XSN26+8FN  | Pan Head Screws                 |
| ⑪   | XSB2+4FX   | Binding Head Screws             |
| ⑫   | XSB26+8FN  | Binding Head Screws             |



# REPLACEMENT PARTS LIST

## Important Notice

- Components identified by "△" mark have special characteristics important for safety.  
When replacing any of these components, use only manufacturer's specified parts.
- RTL : Retention Time Limited (No longer available after discontinuing product).

| REF. NO.      | PART NO.       | DESCRIPTION                        | REF. NO.    | PART NO.     | DESCRIPTION                              |
|---------------|----------------|------------------------------------|-------------|--------------|--|
| MISCELLANEOUS |                |                                    | DRIVE BOARD |              |  |
| FB1           | 14E800A3       | Special Cable (Gch-Drive)          | PCB1 (RTL)  | WE800PKY2A   | Printed Circuit Board Ass'y for AW-E800  |
| FB2           | 26E800A2       | Special Cable (Gch Drive)          |             | WE800EKY2A   | Printed Circuit Board Ass'y for AW E800E |
| FB3           | 10E800A4       | Special Cable (Gch-Analog Process) | U1          | C0JBAA000157 | IC                                       |
| MO1           | L6FAGA9H0001   | DC Motor                           | U2          | MC74ACT541DT | IC                                       |
| M1            | WN-0003        | Cap                                | U3          | C0JBAF000239 | IC                                       |
| M2            | 0E1A053A       | 2/3" Bayonet Mount Ass'y           | U4          | MC74ACT04DT  | IC                                       |
| M3            | △ 7C1A126A     | Main Label for AW-E800             | U6          | C0JBAF000239 | IC                                       |
|               | /C1A122A       | Main Label for AW-E800E            | U7          | YWNJM2902VT1 | IC                                       |
| M4            | 4D1A037A       | Front Escutcheon                   | U8,9        | YWTC7SH32FUL | IC                                       |
| M5            | V7SA1837A4     | Label                              | U10         | MN5280       | IC                                       |
| M6            | 0E1A054A       | Low Pass Holder Ass'y              | U11-13      | C0JBAA000002 | IC                                       |
| M8            | 5E1A094A       | Dust Proof Cushion                 | U14         | C0JBAB000005 | IC                                       |
| M9            | 0E1A060A       | Head Optical Ass'y for AW-E800     | U15         | C0JBAE000085 | IC                                       |
|               | 0E1A052A       | Head Optical Ass'y for AW-E800E    | Q1-3        | 2SD1819ARSTX | Transistor                               |
| M11           | 1B1B820A       | Chassis                            | Q4          | 2SB1218AHL   | Transistor                               |
| M12           | 1C1A113A       | Gasket B                           | Q5,6        | 2SD1819ARSTX | Transistor                               |
| M13           | 1C1A130A       | Gasket D                           | Q7          | 2SB1218AHL   | Transistor                               |
| M14           | YW1B1B009A     | Mounting Parts                     | Q8          | 2SD0874AHL   | Transistor                               |
| M15           | YW1C1A073A     | Shield Parts                       | Q9          | 2SB1218AHL   | Transistor                               |
| M16           | 1A1A234A       | Blank Panel                        | Q10         | 2SD0874AHL   | Transistor                               |
| M17           | 4A1A017A       | Case                               | Q11         | 2SB1218AHL   | Transistor                               |
| M18           | 4D1A038A       | Mounting Bracket                   | Q12         | 2SB0766AHL   | Transistor                               |
| M19           | 1B1B821A       | Mounting Parts                     | Q13         | 2SD1819ARSTX | Transistor                               |
| M21           | △ YW7G1B016A   | Fuse Change Label for AW-E800      | Q14         | 2SB0766AHL   | Transistor                               |
|               | YW7G1B154A     | Blank Label for AW-E800E           | Q15         | 2SD1819ARSTX | Transistor                               |
| M22           | 4C1A004C       | Rear Escutcheon                    | Q16-18      | 2SB1218AHL   | Transistor                               |
| M23           | 1C1A112A       | Gasket A                           | Q19         | B1ABDB000007 | Transistor                               |
| M24           | 1C1A113A       | Gasket B                           | Q20         | B1ADBB000010 | Transistor                               |
| M25           | △ YWV2GA0065A4 | Cord Clamp                         | D1,2        | MA3J14300L   | Diode                                    |
| M26           | △ YW7G1B018A   | Caution Label for AW-E800          | D3          | MA6X12100L   | Diode                                    |
|               |                |                                    | D4          | MA159TX      | Diode                                    |
|               |                |                                    | D5          | MA6X12100L   | Diode                                    |
|               |                |                                    | D6          | YWHVU359TRF  | Diode                                    |
|               |                |                                    | R1-3        | D3EA32240001 | Variable Resistor 220K ohms 1/5W         |
|               |                |                                    | R4          | ERJ3GEYJ472  | Carbon 4.7K ohms 1/16W                   |
|               |                |                                    | R5          | ERJ3GEY0R00  | Carbon 0 ohm 1/16W                       |
|               |                |                                    | R6-8        | ERJ3GEYJ104V | Carbon 100K ohms 1/16W                   |
|               |                |                                    | R9-11       | ERJ3GEYJ470  | Carbon 47 ohms 1/16W                     |
|               |                |                                    | R12-14      | ERJ3GEYJ105  | Carbon 1M ohms 1/16W                     |
|               |                |                                    | R15,16      | ERJ3GEYJ150  | Carbon 15 ohms 1/16W                     |
|               |                |                                    | R17         | ERJ3GEYJ103  | Carbon 10K ohms 1/16W                    |
|               |                |                                    | R18         | ERJ3GEYJ223  | Carbon 22K ohms 1/16W                    |
|               |                |                                    | R19         | ERJ3GEYJ333  | Carbon 33K ohms 1/16W                    |
|               |                |                                    | R22         | ERJ3GEY0R00  | Carbon 0 ohm 1/16W                       |
|               |                |                                    | R25         | ERJ3GEY0R00  | Carbon 0 ohm 1/16W                       |

| REF. NO. | PART NO.     | DESCRIPTION       |                 | REF. NO. | PART NO.     | DESCRIPTION             |                 |
|----------|--------------|-------------------|-----------------|----------|--------------|-------------------------|-----------------|
| R26      | ERJ3GEYJ331  | Carbon            | 330 ohms 1/16W  | R90,100  | ERJ3GEY0R00  | Carbon                  | 0 ohm 1/16W     |
| R27      | ERJ3RHD103V  | Metal             | 10K ohms 1/16W  | R101     | ERJ3GEY0R00  | Carbon                  | 0 ohm 1/16W     |
| R28      | ERJ3GEYJ102  | Carbon            | 1K ohms 1/16W   |          |              | for AW-E800E            |                 |
| R29      | ERJ3RHD103V  | Metal             | 10K ohms 1/16W  | R102     | ERJ3GEY0R00  | Carbon                  | 0 ohm 1/16W     |
| R30      | ERJ3RIID113V | Metal             | 11K ohms 1/16W  |          |              | for AW-C800             |                 |
| R31      | ERJ3RHD103V  | Metal             | 10K ohms 1/16W  | R103     | ERJ3GEY0R00  | Carbon                  | 0 ohms 1/16W    |
| R32      | ERJ3GEYJ331  | Carbon            | 330 ohms 1/16W  | R104     | ERJ3GEYJ472  | Carbon                  | 4.7K ohms 1/16W |
| R33      | ERJ3RHD622V  | Metal             | 6.2K ohms 1/16W | R105     | ERJ3GEY0R00  | Carbon                  | 0 ohm 1/16W     |
| R34      | ERJ3GEYJ102  | Carbon            | 1K ohms 1/16W   | R107     | ERJ3GEYJ102  | Carbon                  | 1K ohms 1/16W   |
| R35      | ERJ3RHD822V  | Metal             | 8.2K ohms 1/16W | R108     | ERJ3GEYJ472  | Carbon                  | 4.7K ohms 1/16W |
| R36      | ERJ3RHD123V  | Metal             | 12K ohms 1/16W  | R109,110 | ERJ3GEY0R00  | Carbon                  | 0 ohm 1/16W     |
| R37      | ERJ3RHD103V  | Metal             | 10K ohms 1/16W  | R113,116 | D3EA31040002 | Variable Resistor       | 100K ohms 1/2W  |
| R38      | ERJ3GEYJ331  | Carbon            | 330 ohms 1/16W  | R119     | D3EA31040002 | Variable Resistor       | 100K ohms 1/2W  |
| R39      | ERJ3RHD303V  | Metal             | 30K ohms 1/16W  | R120,121 | ERJ3GEYJ470  | Carbon                  | 47 ohms 1/16W   |
| R40      | ERJ3GEYJ102  | Carbon            | 1K ohms 1/16W   | R122-124 | ERJ3GEYJ304  | Carbon                  | 300K ohms 1/16W |
| R41      | ERJ3RHD153V  | Metal             | 15K ohms 1/16W  | R125-134 | ERJ3GEY0R00  | Carbon                  | 0 ohm 1/16W     |
| R42      | ERJ3RHD133V  | Metal             | 13K ohms 1/16W  | R135     | ERJ3GEYJ105  | Carbon                  | 1M ohms 1/16W   |
| R43      | ERJ3RHD622V  | Metal             | 6.2K ohms 1/16W | C1 6     | YGM1F104Z1ET | Ceramic                 | 0.1 µF 25V      |
| R44      | ERJ3GEYJ560  | Carbon            | 56 ohms 1/16W   | C7       | YGM1B103K1HT | Ceramic                 | 0.01 µF         |
| R45      | ERJ3GEY0R00  | Carbon            | 0 ohm 1/16W     | C8       | F1H1H102A190 | Ceramic                 | 1000 µF 50V     |
| R50      | ERJ3GEY0R00  | Carbon            | 0 ohm 1/16W     | C9       | F3H1V6850002 | Tantalum                | 6.8 µF 35V      |
| R51      | ERJ3GEYJ331  | Carbon            | 330 ohms 1/16W  | C10,12   | SK31E106KRC  | Tantalum                | 10 µF 25V       |
| R52      | ERJ3RHD103V  | Metal             | 10K ohms 1/16W  | C13      | YGM1F105Z1AT | Ceramic                 | 1 µF            |
| R53      | ERJ3GEYJ102  | Carbon            | 1K ohms 1/16W   | C14      | F3F1C1060002 | Tantalum                | 10 µF 16V       |
| R54      | ERJ3RHD103V  | Metal             | 10K ohms 1/16W  | C15      | SK31E106KRC  | Tantalum                | 10 µF 25V       |
| R55      | ERJ3RHD183V  | Metal             | 18K ohms 1/16W  | C16      | YGM1F105Z1AT | Ceramic                 | 1 µF            |
| R56      | ERJ3RHD103V  | Metal             | 10K ohms 1/16W  | C17      | F3F1C1060002 | Tantalum                | 10 µF 16V       |
| R57      | D3EA31040002 | Variable Resistor | 100K ohms 1/5W  | C18      | SK31E106KRC  | Tantalum                | 10 µF 25V       |
| R58      | ERJ3GEYJ224  | Carbon            | 220K ohms 1/16W | C19      | F3H1V6850002 | Tantalum                | 6.8 µF 35V      |
| R59      | D3EA31040002 | Variable Resistor | 100K ohms 1/5W  | C20      | YGM1F105Z1AT | Ceramic                 | 1 µF            |
| R60      | ERJ3GEYJ224  | Carbon            | 220K ohms 1/16W | C21      | F3F1C1060002 | Tantalum                | 10 µF 16V       |
| R61      | D3EA31040002 | Variable Resistor | 100K ohms 1/5W  | C22      | F3H1V6850002 | Tantalum                | 6.8 µF 35V      |
| R62      | ERJ3GEYJ224  | Carbon            | 220K ohms 1/16W | C23      | GRM9CH180J5H | Ceramic                 | 18 pF           |
| R63-65   | ERJ3GEYJ103  | Carbon            | 10K ohms 1/16W  | C25      | SK41A107ME   | Tantalum                | 100 µF 10V      |
| R66      | ERJ3GEYJ470  | Carbon            | 47 ohms 1/16W   | C26      | YGM1F105Z1AT | Ceramic                 | 1 µF            |
| R67      | ERJ3GEYJ104V | Carbon            | 100K ohms 1/16W | C27      | F3F1C1060002 | Tantalum                | 10 µF 16V       |
| R68      | ERJ3GEYJ470  | Carbon            | 47 ohms 1/16W   | C28      | SK41C336MC   | Tantalum                | 22 µF 6.3V      |
| R69      | ERJ3GEYJ104V | Carbon            | 100K ohms 1/16W | C29-31   | YGM1F104Z1ET | Ceramic                 | 0.1 µF 25V      |
| R70      | ERJ3GEYJ470  | Carbon            | 47 ohms 1/16W   | C32-34   | YW400225FZT  | Ceramic                 | 2.2 µF          |
| R71      | ERJ3GEYJ104V | Carbon            | 100K ohms 1/16W | C35-37   | YGM1F104Z1ET | Ceramic                 | 0.1 µF 25V      |
| R72      | ERJ3GEYJ100  | Carbon            | 10 ohms 1/16W   | C38      | F3F1C1060002 | Tantalum                | 10 µF 16V       |
| R73      | ERJ3GEYJ222  | Carbon            | 2.2K ohms 1/16W | C39      | YGM1B332K1HT | Ceramic                 | 3.3 NF 50V      |
| R74      | ERJ3GEYJ223  | Carbon            | 22K ohms 1/16W  | C41      | GRM9CH331J5H | Ceramic                 | 330 pF          |
| R75      | ERJ3GEYJ103  | Carbon            | 10K ohms 1/16W  | C42      | YGM1C220J1HT | Ceramic                 | 22 pF           |
| R77      | ERJ3GEYJ101  | Carbon            | 100 ohms 1/16W  | C43-46   | YGM1C121J1HT | Ceramic                 | 120 pF          |
| R78      | ERJ3GEYF470V | Carbon            | 47K ohms 1/16W  | C47,48   | YGM1C560J1HT | Ceramic                 | 56 pF           |
| R79      | ERJ3RHD101V  | Metal             | 100 ohms 1/16W  | C50-52   | YGM1F104Z1ET | Ceramic                 | 0.1 µF 25V      |
| R80      | ERJ3GEYF620V | Carbon            | 62 ohms 1/16W   | C54      | F1H1H221A231 | Ceramic                 | 220 pF 50V      |
| R81      | ERJ3RHD821V  | Metal             | 820 ohms 1/16W  | C55-64   | YGM1F104Z1ET | Ceramic                 | 0.1 µF 25V      |
| R82      | ERJ3GEYJ470  | Carbon            | 47 ohms 1/16W   | E1-3     | YWRCT2125TPV | Terminal Pin            |                 |
| R83      | ERJ3GEYJ101  | Carbon            | 100 ohms 1/16W  | E11-16   | YWRCT2125TPV | Terminal Pin            |                 |
| R85      | ERJ3GEY0R00  | Carbon            | 0 ohm 1/16W     | P1       | K1MN26B00016 | 26-pin Connector        |                 |
| R86,89   | ERJ3GEY0R00  | Carbon            | 0 ohm 1/16W     | P2       | K1MN14B00035 | 14-pin Connector        |                 |
| R90,92   | ERJ3GEY0R00  | Carbon            | 0 ohm 1/16W     | P3       | K1KA30A00084 | 30-pin Connector        |                 |
| R93,96   | ERJ3GEY0R00  | Carbon            | 0 ohm 1/16W     | X1       | H0J360500001 | Crystal Oscillator Unit |                 |

| REF. NO.                    | PART NO.     | DESCRIPTION                              | REF. NO. | PART NO.     | DESCRIPTION            |
|-----------------------------|--------------|--|----------|--------------|------------------------|
| W17                         | YWDP120J1    | Lead                                     | Q114     | 2SD1819ARSTX | Transistor for AW-E800 |
|                             |              |  | Q115     | 2SC39310YL   | Transistor             |
|                             |              |  | Q116     | 2SD1819ARSTX | Transistor for AW-E800 |
|                             |              |  | Q117-119 | 2SA15320CL   | Transistor             |
|                             |              |  | Q120     | 2SC39310YL   | Transistor             |
| <b>ANALOG PROCESS BOARD</b> |              |  | Q121,122 | 2SA15320CL   | Transistor             |
|                             |              |  | Q123     | 2SC39310YL   | Transistor             |
|                             |              |  | Q124,125 | XN0653400L   | Transistor             |
|                             |              |  | Q126     | 2SC39310YL   | Transistor             |
|                             |              |  | Q127     | 2SK662-PQRTX | Transistor             |
| PCB2 (RTL)                  | WE800PKZ2B   | Printed Circuit Board Ass'y for AW-E800E | Q128     | XN0653400L   | Transistor             |
|                             | WE800EKZ2B   | Printed Circuit Board Ass'y for AW-E800E | Q129     | XN0643500L   | Transistor             |
| U1                          | YWYMC14050BF | IC                                       | Q130     | B1GKCFAA0007 | Transistor             |
| U101                        | YWTC4W53FUL  | IC                                       | Q131     | XN0643500L   | Transistor             |
| U102                        | NJM4559M     | IC                                       | Q132     | 2SA15320CL   | Transistor             |
| U103                        | C0JBAR000214 | IC                                       |          |              |                        |
| U104                        | NJM4559M     | IC                                       | Q133     | 2SK662-PQRTX | Transistor             |
| U105                        | NJM4560M     | IC                                       | Q134     | B1GKCFAA0007 | Transistor             |
| U106                        | YWTC4W53FUL  | IC                                       | Q135,138 | XN0643500L   | Transistor             |
| U107                        | NJM4560M     | IC                                       | Q139,140 | 2SA15320CL   | Transistor             |
|                             |              |  | Q141     | 2SC39310YL   | Transistor             |
| U301                        | YWTC4W53FUL  | IC                                       | Q142     | XN0643500L   | Transistor             |
| U302                        | NJM4559M     | IC                                       | Q143     | 2SK662-PQRTX | Transistor             |
| U303                        | C0JBAR000214 | IC                                       | Q144,145 | 2SA15320CL   | Transistor             |
| U304                        | NJM4559M     | IC                                       | Q146,301 | 2SC39310YL   | Transistor             |
| U305                        | NJM4560M     | IC                                       | Q302     | 2SA15320CL   | Transistor             |
| U306                        | YWTC4W53FUL  | IC                                       |          |              |                        |
| U307                        | NJM4560M     | IC                                       | Q303     | B1CFCB000006 | Transistor             |
| U501                        | YWTC4W53FUL  | IC                                       | Q304     | 2SC39310YL   | Transistor             |
| U502                        | NJM4559M     | IC                                       | Q305     | 2SA15320CL   | Transistor             |
| U503                        | C0JBAR000214 | IC                                       | Q306     | B1CFDA000001 | Transistor             |
|                             |              |  | Q307     | 2SC39310YL   | Transistor             |
| U504                        | NJM4559M     | IC                                       |          |              |                        |
| U505                        | NJM4560M     | IC                                       | Q308     | 2SA15320CL   | Transistor             |
| U506                        | YWTC4W53FUL  | IC                                       | Q309     | 2SC39310YL   | Transistor             |
| U507                        | NJM4560M     | IC                                       | Q310     | 2SA15320CL   | Transistor             |
| U701                        | NJM2902M     | IC                                       | Q311     | B1CFCB000006 | Transistor             |
|                             |              |  | Q312,313 | 2SC39310YL   | Transistor             |
| U702                        | YWNJM4556AM  | IC                                       |          |              |                        |
| U703                        | C0ABCB000022 | IC                                       | Q314     | 2SD1819ARSTX | Transistor for AW-E800 |
| U704                        | YWTC4W53FUL  | IC                                       | Q315     | 2SC39310YL   | Transistor             |
| U705                        | C0ABCB000022 | IC                                       | Q316     | 2SD1819ARSTX | Transistor             |
| U706                        | C5AB00000001 | IC                                       | Q317-319 | 2SA15320CL   | Transistor             |
|                             |              |  | Q320     | 2SC39310YL   | Transistor             |
| U707                        | C0JBAA000021 | IC                                       |          |              |                        |
| U708                        | C0JBAA000087 | IC                                       | Q321,322 | 2SA15320CL   | Transistor             |
| U709                        | C5AB00000001 | IC                                       | Q323     | 2SC39310YL   | Transistor             |
| Q101                        | 2SC39310YL   | Transistor                               | Q324,325 | XN0653400L   | Transistor             |
| Q102                        | 2SA15320CL   | Transistor                               | Q326     | 2SC39310YL   | Transistor             |
|                             |              |  | Q327     | 2SK662-PQRTX | Transistor             |
| Q103                        | B1CFCB000006 | FET                                      |          |              |                        |
| Q104                        | 2SC39310YL   | Transistor                               | Q328     | XN0653400L   | Transistor             |
| Q105                        | 2SA15320CL   | Transistor                               | Q329     | XN0643500L   | Transistor             |
| Q106                        | B1CFDA000001 | FET                                      | Q330     | B1GKCFAA0007 | Transistor             |
| Q107                        | 2SC39310YL   | Transistor                               | Q331     | XN0643500L   | Transistor             |
|                             |              |  | Q332     | 2SA15320CL   | Transistor             |
| Q108                        | 2SA15320CL   | Transistor                               |          |              |                        |
| Q109                        | 2SC39310YL   | Transistor                               | Q333     | 2SK662-PQRTX | Transistor             |
| Q110                        | 2SA15320CL   | Transistor                               | Q334     | B1GKCFAA0007 | Transistor             |
| Q111                        | B1CFCB000006 | Transistor                               | Q335-338 | XN0643500L   | Transistor             |
| Q112,113                    | 2SC39310YL   | Transistor                               | Q339,340 | 2SA15320CL   | Transistor             |
|                             |              |  | Q341     | 2SC39310YL   | Transistor             |

| REF. NO. | PART NO.      | DESCRIPTION            | REF. NO. | PART NO.     | DESCRIPTION                |
|----------|---------------|------------------------|----------|--------------|----------------------------|
| Q342     | XN0643500L    | Transistor             | D102     | MA3J14300L   | Diode                      |
| Q343     | 2SK662-PQRTX  | Transistor             | D301     | MA3J142K0L   | Diode                      |
| Q344     | 2SA15320CL    | Transistor             | D302     | MA3J14300L   | Diode                      |
| Q345,501 | 2SC39310YL    | Transistor             | D501     | MA3J142K0L   | Diode                      |
| Q502     | 2SA15320CL    | Transistor             | D502     | MA3J14300L   | Diode                      |
| Q503     | B1CFCB000006  | Transistor             | R1       | ERJ3GEYJ203V | Carbon 20K ohms 1/16W      |
| Q504     | 2SC39310YL    | Transistor             | R2       | ERJ3GEYJ103  | Carbon 10K ohms 1/16W      |
| Q505     | 2SA15320CL    | Transistor             | R3       | ERJ3GEYJ104V | Carbon 100K ohms 1/16W     |
| Q506     | B1CFDA000001  | Transistor             | R4       | ERJ3GEYJ333  | Carbon 33K ohms 1/16W      |
| Q507     | 2SC39310YL    | Transistor             | R5       | ERJ3GEYJ103  | Carbon 10K ohms 1/16W      |
| Q508     | 2SA15320CL    | Transistor             | R6       | ERJ3GEYJ334V | Carbon 330K ohms 1/16W     |
| Q509     | 2SC39310YL    | Transistor             | R7       | ERJ3GEYJ333  | Carbon 33K ohms 1/16W      |
| Q510     | 2SA15320CL    | Transistor             | R8       | ERJ3GEYJ334V | Carbon 330K ohms 1/16W     |
| Q511     | B1CF-CB000006 | Transistor             | R9       | ERJ3GEYJ102  | Carbon 1K ohms 1/16W       |
| Q512,513 | 2SC39310YL    | Transistor             | R10      | ERJ3GEYJ103  | Carbon 10K ohms 1/16W      |
| Q514     | 2SD1819ARSTX  | Transistor             | R11      | ERJ3GEYJ224  | Carbon 220K ohms 1/16W     |
| Q515     | 2SC39310YL    | Transistor             | R12      | ERJ3GEYJ203V | Carbon 20K ohms 1/16W      |
| Q516     | 2SD1819ARSTX  | Transistor             | R13      | ERJ3GEYJ224  | Carbon 220K ohms 1/16W     |
| Q517-519 | 2SA15320CL    | Transistor             | R101     | ERJ3GEYJ752V | Carbon 7.5K ohms 1/16W     |
| Q520     | 2SC39310YL    | Transistor             | R102     | ERJ3GEYJ821  | Carbon 820 ohms 1/16W      |
| Q521,522 | 2SA15320CL    | Transistor             | R103     | ERJ3GEYJ223  | Carbon 22K ohms 1/16W      |
| Q523     | 2SC39310YL    | Transistor for AW-E800 | R104     | ERJ3GEYJ153  | Carbon 15K ohms 1/16W      |
| Q524,525 | XN0653400L    | Transistor             | R105     | ERJ3GEY0R00  | Carbon 0 ohm 1/16W         |
| Q526     | 2SC39310YL    | Transistor for AW-E800 | R106     | ERJ3GEYJ752V | Carbon 7.5K ohms 1/16W     |
| Q527     | 2SK662-PQRTX  | Transistor             | R107     | ERJ3GEYJ241V | Carbon 240 ohms 1/16W      |
| Q528     | XN0653400L    | Transistor             | R108     | ERJ3GEYJ101  | Carbon 100 ohms 1/16W      |
| Q529     | XN0643500L    | Transistor             | R109     | ERJ3GEYJ472  | Carbon 4.7K ohms 1/16W     |
| Q530     | B1GKCFAA0007  | Transistor             | R110     | ERJ3GEY0R00  | Carbon 0 ohm 1/16W         |
| Q531     | XN0643500L    | Transistor             | R111,112 | ERJ3GEYJ153  | Carbon 15K ohms 1/16W      |
| Q532     | 2SA15320CL    | Transistor             | R113     | ERJ3GEY0R00  | Carbon 0 ohm 1/16W         |
| Q533     | 2SK662-PQRTX  | Transistor             | R114     | ERJ3GEYJ122  | Carbon 1.2K ohms 1/16W     |
| Q534     | B1GKCFAA0007  | Transistor             | R115     | ERJ3GEYJ220  | Carbon 22 ohms 1/16W       |
| Q535-538 | XN0643500L    | Transistor             | R116     | ERJ3GEYJ303V | Carbon 30K ohms 1/16W      |
| Q539,540 | 2SA15320CL    | Transistor             | R117     | ERJ3GEYJ153  | Carbon 15K ohms 1/16W      |
| Q541     | 2SC39310YL    | Transistor for AW-E800 | R118     | ERJ3GEYJ272  | Carbon 2.7K ohms 1/16W     |
| Q542     | XN0643500L    | Transistor             | R119     | ERJ3GEYJ821  | Carbon 820K ohms 1/16W     |
| Q543     | 2SK662-PQRTX  | Transistor             | R121     | ERJ3GEYJ472  | Carbon 4.7K ohms 1/16W     |
| Q544     | 2SA15320CL    | Transistor             | R122     | ERJ3GEYJ332  | Carbon 3.3K ohms 1/16W     |
| Q545     | 2SC39310YL    | Transistor for AW-E800 | R123     | EVM7JSW30B53 | Variable Resistor          |
| Q701     | 2SB0766AHL    | Transistor             | R124     | ERJ3GEY0R00  | Carbon 0 ohm 1/16W         |
| Q702     | 2SD0874AHL    | Transistor for AW-E800 | R125     | ERJ3GEYJ752V | Carbon 7.5K ohms 1/16W     |
| Q703     | 2SB0766AHL    | Transistor             | R126     | ERJ3GEYJ102  | Carbon 1K ohms 1/16W       |
| Q704,706 | 2SB1218AHL    | Transistor             | R127     | ERJ3GEYJ151  | Carbon 150 ohms 1/16W      |
| Q707     | 2SB1218AHL    | Transistor             | R128     | EVM7JSW30B12 | Variable Resistor 100 ohms |
| Q708     | 2SD1819ARSTX  | Transistor             | R130     | ERJ3GEYJ562  | Carbon 5.6K ohms 1/16W     |
| Q709     | 2SB1218AHL    | Transistor             | R131     | ERJ3GEYJ102  | Carbon 1K ohms 1/16W       |
| Q710,711 | 2SD1819ARSTX  | Transistor             | R132     | ERJ3GEYJ221  | Carbon 220 ohms 1/16W      |
| Q712     | 2SB1218AHL    | Transistor             | R133     | ERJ3GEYJ752V | Carbon 7.5K ohms 1/16W     |
| Q713,714 | 2SD1819ARSTX  | Transistor             | R134     | ERJ3GEY0R00  | Carbon 0 ohm 1/16W         |
| Q718-720 | 2SD1819ARSTX  | Transistor             | R135     | ERJ3GEYJ153  | Carbon 15K ohms 1/16W      |
| Q721,722 | 2SB1218AHL    | Transistor             | R136     | ERJ3GEYJ561  | Carbon 560 ohms 1/16W      |
| Q723-725 | 2SD1819ARSTX  | Transistor             | R137     | ERJ3GEYJ392  | Carbon 3.9K ohms 1/16W     |
| Q726     | 2SB1218AHL    | Transistor             | R138     | ERJ3GEYJ751V | Carbon 750 ohms 1/16W      |
| Q727     | 2SD1819ARSTX  | Transistor             | R139     | ERJ3GEYJ752V | Carbon 7.5K ohms 1/16W     |
| D1,101   | MA3J142K0L    | Diode                  | R140     | ERJ3GEYJ362V | Carbon 3.6K ohms 1/16W     |

| REF. NO. | PART NO.     | DESCRIPTION |                 | REF. NO. | PART NO.     | DESCRIPTION       |                 |
|----------|--------------|-------------|-----------------|----------|--------------|-------------------|-----------------|
| R141     | ERJ3GEYJ152  | Carbon      | 1.5K ohms 1/16W | R205     | ERJ3GEYJ222  | Carbon            | 2.2K ohms 1/16W |
| R142,143 | ERJ3GEYJ331  | Carbon      | 330 ohms 1/16W  | R206     | ERJ3GEYJ101  | Carbon            | 100 ohms 1/16W  |
| R144     | ERJ3GEYJ822  | Carbon      | 8.2K ohms 1/16W | R207     | ERJ3GEYJ222  | Carbon            | 2.2K ohms 1/16W |
| R145,146 | ERJ3GEYJ331  | Carbon      | 330 ohms 1/16W  | R208     | ERJ3GEYJ103  | Carbon            | 10K ohms 1/16W  |
| R147     | ERJ3GEYJ022  | Carbon      | 0.2K ohms 1/16W | R209     | ERJ3GEYJ101  | Carbon            | 100 ohms 1/16W  |
| R148     | ERJ3GEY0R00  | Carbon      | 0 ohm 1/16W     | R210     | ERJ3GEYJ103  | Carbon            | 10K ohms 1/16W  |
| R149     | ERJ3GEYJ472  | Carbon      | 4.7K ohms 1/16W | R211     | ERJ3GEYJ101  | Carbon            | 100 ohms 1/16W  |
| R150     | ERJ3GEYJ222  | Carbon      | 2.2K ohms 1/16W | R212     | ERJ3GEYJ103  | Carbon            | 10K ohms 1/16W  |
| R151     | ERJ3GEYJ472  | Carbon      | 4.7K ohms 1/16W | R213     | ERJ3GEYJ101  | Carbon            | 100 ohms 1/16W  |
| R152     | ERJ3GEY0R00  | Carbon      | 0 ohm 1/16W     | R214     | ERJ3GEYJ103  | Carbon            | 10K ohms 1/16W  |
| R153     | ERJ3GEYJ222  | Carbon      | 2.2K ohms 1/16W | R215     | ERJ3GEYJ101  | Carbon            | 100 ohms 1/16W  |
| R154     | ERJ3GEYJ473  | Carbon      | 47K ohms 1/16W  | R216     | ERJ3RHD222V  | Metal             | 2.2K ohms 1/16W |
| R155     | ERJ3GEYJ472  | Carbon      | 4.7K ohms 1/16W | R217     | ERJ3RHD153V  | Metal             | 15K ohms 1/16W  |
| R156,157 | ERJ3GEYJ222  | Carbon      | 2.2K ohms 1/16W | R218     | ERJ3GEYJ331  | Carbon            | 330 ohms 1/16W  |
| R158     | ERJ3GEYJ223  | Carbon      | 22K ohms 1/16W  | R219     | ERJ3GEYJ914V | Carbon            | 910K ohms 1/16W |
| R159     | ERJ3GEYJ100  | Carbon      | 10 ohms 1/16W   | R220     | ERJ3RHD203V  | Metal             | 20K ohms 1/16W  |
| R160,161 | ERJ3GEYJ103  | Carbon      | 10K ohms 1/16W  | R221     | ERJ3RHD432V  | Metal             | 4.3K ohms 1/16W |
| R162,163 | ERJ3GEYJ223  | Carbon      | 22K ohms 1/16W  | R222     | ERJ3RHD512V  | Metal             | 5.1K ohms 1/16W |
| R164     | ERJ3GEYJ101  | Carbon      | 100 ohms 1/16W  | R223     | ERJ3RHD751V  | Metal             | 750 ohms 1/16W  |
| R165     | ERJ3GEYJ333  | Carbon      | 33K ohms 1/16W  | R224     | ERJ3RHD683V  | Metal             | 68K ohms 1/16W  |
| R166     | ERJ3GEYJ473  | Carbon      | 47K ohms 1/16W  | R225     | ERJ3GEYJ223  | Carbon            | 22K ohms 1/16W  |
| R167     | ERJ3GEYJ103  | Carbon      | 10K ohms 1/16W  | R226     | ERJ3GEYJ101  | Carbon            | 100 ohms 1/16W  |
| R168     | ERJ3GEYJ472  | Carbon      | 4.7K ohms 1/16W | R227     | ERJ3RHD242V  | Metal             | 2.4K ohms 1/16W |
| R169     | ERJ3GEYJ222  | Carbon      | 2.2K ohms 1/16W | R228     | ERJ3GEYJ153  | Carbon            | 15K ohms 1/16W  |
| R170,171 | ERJ3GEYJ101  | Carbon      | 100 ohms 1/16W  | R229,230 | ERJ3RHD471V  | Metal             | 470 ohms 1/16W  |
| R172     | ERJ3GEYJ112V | Carbon      | 1.1K ohms 1/16W | R231     | ERJ3GEYJ101  | Carbon            | 100 ohms 1/16W  |
| R173     | ERJ3GEYJ101  | Carbon      | 100 ohms 1/16W  | R232     | ERJ3RHD102V  | Metal             | 1K ohms 1/16W   |
| R174     | ERJ3GEYJ152  | Carbon      | 1.5K ohms 1/16W | R233     | ERJ3GEYJ223  | Carbon            | 22K ohms 1/16W  |
| R175     | ERJ3GEY0R00  | Carbon      | 0 ohm 1/16W     | R235     | ERJ3GEYJ101  | Carbon            | 100 ohms 1/16W  |
| R176     | ERJ3GEYJ152  | Carbon      | 1.5K ohms 1/16W | R236     | ERJ3RHD202V  | Metal             | 2K ohms 1/16W   |
| R177     | ERJ3GEYJ822  | Carbon      | 8.2K ohms 1/16W | R237     | ERJ3GEYJ222  | Carbon            | 2.2K ohms 1/16W |
| R178     | ERJ3GEYJ103  | Carbon      | 10K ohms 1/16W  | R238     | ERJ3GEYJ102  | Carbon            | 1K ohms 1/16W   |
| R179     | ERJ3GEYJ473  | Carbon      | 47K ohms 1/16W  | R239     | ERJ3GEYJ222  | Carbon            | 2.2K ohms 1/16W |
| R180     | ERJ3GEYJ121  | Carbon      | 120 ohms 1/16W  | R240     | ERJ3GEY0R00  | Carbon            | 0 ohm 1/16W     |
| R181     | ERJ3GEY0R00  | Carbon      | 0 ohm 1/16W     | R241     | ERJ3GEYJ103  | Carbon            | 10K ohms 1/16W  |
| R182     | ERJ3GEYJ471  | Carbon      | 470 ohms 1/16W  | R242     | ERJ3GEYJ153  | Carbon            | 15K ohms 1/16W  |
| R183     | ERJ3GEYJ682  | Carbon      | 6.8K ohms 1/16W | R243     | ERJ3GEYJ332  | Carbon            | 3.3K ohms 1/16W |
| R184     | ERJ3GEYJ681  | Carbon      | 680 ohms 1/16W  | R244     | ERJ3GEYJ472  | Carbon            | 4.7K ohms 1/16W |
| R185     | ERJ3GEYJ682  | Carbon      | 6.8K ohms 1/16W | R245     | ERJ3GEYJ102  | Carbon            | 1K ohms 1/16W   |
| R186     | ERJ3GEYJ222  | Carbon      | 2.2K ohms 1/16W | R246     | EVM7JSW30B53 | Variable Resistor | 5K ohms 1/20W   |
| R187     | ERJ3GEYJ223  | Carbon      | 22K ohms 1/16W  | R247     | ERJ3GEYJ152  | Carbon            | 1.5K ohms 1/16W |
| R188     | ERJ3GEYJ203V | Carbon      | 20K ohms 1/16W  | R248     | ERJ3GEYJ101  | Carbon            | 100 ohms 1/16W  |
| R189     | ERJ3GEYJ103  | Carbon      | 10K ohms 1/16W  | R249     | ERJ3GEYJ222  | Carbon            | 2.2K ohms 1/16W |
| R190     | ERJ3GEYJ683  | Carbon      | 68K ohms 1/16W  | R255,256 | ERJ3GEYJ682  | Carbon            | 6.8K ohms 1/16W |
| R192     | ERJ3GEYJ563  | Carbon      | 56K ohms 1/16W  | R257     | ERJ3GEYJ472  | Carbon            | 4.7K ohms 1/16W |
| R193     | ERJ3GEYJ222  | Carbon      | 2.2K ohms 1/16W | R258     | ERJ3GEYJ103  | Carbon            | 10K ohms 1/16W  |
| R194     | ERJ3GEYJ101  | Carbon      | 100 ohms 1/16W  | R301     | ERJ3GEYJ752V | Carbon            | 7.5K ohms 1/16W |
| R195     | ERJ3GEYJ102  | Carbon      | 1K ohms 1/16W   | R302     | ERJ3GEYJ821  | Carbon            | 820 ohms 1/16W  |
| R196,197 | ERJ3GEYJ223  | Carbon      | 22K ohms 1/16W  | R303     | ERJ3GEYJ223  | Carbon            | 22K ohms 1/16W  |
| R198     | ERJ3GEYJ101  | Carbon      | 100 ohms 1/16W  | R304     | ERJ3GEYJ153  | Carbon            | 15K ohms 1/16W  |
| R199     | ERJ3GEYJ223  | Carbon      | 22K ohms 1/16W  | R305     | ERJ3GEY0R00  | Carbon            | 0 ohm 1/16W     |
| R200     | ERJ3GEYJ823V | Carbon      | 82K ohms 1/16W  | R306     | ERJ3GEYJ752V | Carbon            | 7.5K ohms 1/16W |
| R201,202 | ERJ3GEYJ392  | Carbon      | 3.9K ohms 1/16W | R307     | ERJ3GEYJ241V | Carbon            | 240 ohms 1/16W  |
| R203     | ERJ3GEYJ183  | Carbon      | 18K ohms 1/16W  | R308     | ERJ3GEYJ101  | Carbon            | 100 ohms 1/16W  |
| R204     | ERJ3GEYJ682  | Carbon      | 6.8K ohms 1/16W | R309     | ERJ3GEYJ472  | Carbon            | 4.7K ohms 1/16W |

| REF. NO. | PART NO.     | DESCRIPTION       |                 | REF. NO. | PART NO.     | DESCRIPTION |                 |
|----------|--------------|-------------------|-----------------|----------|--------------|-------------|-----------------|
| R310     | ERJ3GEY0R00  | Carbon            | 0 ohm 1/16W     | R377     | ERJ3GEYJ022  | Carbon      | 0.2K ohms 1/16W |
| R311,312 | ERJ3GEYJ153  | Carbon            | 15K ohms 1/16W  | R378     | ERJ3GEYJ103  | Carbon      | 10K ohms 1/16W  |
| R313     | ERJ3GEY0R00  | Carbon            | 0 ohm 1/16W     | R379     | ERJ3GEYJ473  | Carbon      | 47K ohms 1/16W  |
| R314     | ERJ3GEYJ122  | Carbon            | 1.2K ohms 1/16W | R380     | ERJ3GEYJ121  | Carbon      | 120 ohms 1/16W  |
| R315     | ERJ3GEYJ220  | Carbon            | 22 ohms 1/16W   | R301     | ERJ3GEY0R00  | Carbon      | 0 ohm 1/16W     |
| R316     | ERJ3GEYJ303V | Carbon            | 30K ohms 1/16W  | R382     | ERJ3GEYJ471  | Carbon      | 470 ohms 1/16W  |
| R317     | ERJ3GEYJ153  | Carbon            | 15K ohms 1/16W  | R383     | ERJ3GEYJ682  | Carbon      | 6.8K ohms 1/16W |
| R318     | ERJ3GEYJ272  | Carbon            | 2.8K ohms 1/16W | R384     | ERJ3GEYJ681  | Carbon      | 680 ohms 1/16W  |
| R319     | ERJ3GEYJ821  | Carbon            | 820 ohms 1/16W  | R385     | ERJ3GEYJ682  | Carbon      | 6.8K ohms 1/16W |
| R321     | ERJ3GEYJ472  | Carbon            | 4.7K ohms 1/16W | R386     | ERJ3GEYJ222  | Carbon      | 2.2K ohms 1/16W |
| R322     | ERJ3GEYJ332  | Carbon            | 3.3K ohms 1/16W | R387     | ERJ3GEYJ223  | Carbon      | 22K ohms 1/16W  |
| R323     | EVM7JSW30B53 | Variable Resistor | 5K ohms 1/20W   | R388     | ERJ3GEYJ203V | Carbon      | 20K ohms 1/16W  |
| R324     | ERJ3GEY0R00  | Carbon            | 0 ohm 1/16W     | R389     | ERJ3GEYJ103  | Carbon      | 10K ohms 1/16W  |
| R325     | ERJ3GEYJ752V | Carbon            | 7.5K ohms 1/16W | R390     | ERJ3GEYJ683  | Carbon      | 68K ohms 1/16W  |
| R326     | ERJ3GEYJ102  | Carbon            | 1K ohms 1/16W   | R392     | ERJ3GEYJ563  | Carbon      | 56K ohms 1/16W  |
| R327     | ERJ3GEYJ151  | Carbon            | 150 ohms 1/16W  | R393     | ERJ3GEYJ222  | Carbon      | 2.2K ohms 1/16W |
| R328     | EVM7JSW30B12 | Variable Resistor | 100 ohms        | R394     | ERJ3GEYJ101  | Carbon      | 100 ohms 1/16W  |
| R330     | ERJ3GEYJ562  | Carbon            | 5.6K ohms 1/16W | R395     | ERJ3GEYJ102  | Carbon      | 1K ohms 1/16W   |
| R331     | ERJ3GEYJ102  | Carbon            | 1K ohms 1/16W   | R396,397 | ERJ3GEYJ223  | Carbon      | 22K ohms 1/16W  |
| R332     | ERJ3GEYJ221  | Carbon            | 220 ohms 1/16W  | R398     | ERJ3GEYJ101  | Carbon      | 100 ohms 1/16W  |
| R333     | ERJ3GEYJ752V | Carbon            | 7.5K ohms 1/16W | R399     | ERJ3GEYJ223  | Carbon      | 22K ohms 1/16W  |
| R334     | ERJ3GEY0R00  | Carbon            | 0 ohm 1/16W     | R400     | ERJ3GEYJ823V | Carbon      | 82K ohms 1/16W  |
| R335     | ERJ3GEYJ153  | Carbon            | 15K ohms 1/16W  | R401,402 | ERJ3GEYJ392  | Carbon      | 3.9K ohms 1/16W |
| R336     | ERJ3GEYJ561  | Carbon            | 560 ohms 1/16W  | R403     | ERJ3GEYJ183  | Carbon      | 18K ohms 1/16W  |
| R337     | ERJ3GEYJ392  | Carbon            | 3.9K ohms 1/16W | R404     | ERJ3GEYJ682  | Carbon      | 6.8K ohms 1/16W |
| R338     | ERJ3GEYJ751V | Carbon            | 750 ohms 1/16W  | R405     | ERJ3GEYJ222  | Carbon      | 2.2K ohms 1/16W |
| R339     | ERJ3GEYJ752V | Carbon            | 7.5K ohms 1/16W | R406     | ERJ3GEYJ101  | Carbon      | 100 ohms 1/16W  |
| R340     | ERJ3GEYJ362V | Carbon            | 3.6K ohms 1/16W | R407     | ERJ3GEYJ222  | Carbon      | 2.2K ohms 1/16W |
| R341     | ERJ3GEYJ152  | Carbon            | 1.5K ohms 1/16W | R408     | ERJ3GEYJ103  | Carbon      | 10K ohms 1/16W  |
| R342,343 | ERJ3GEYJ331  | Carbon            | 330 ohms 1/16W  | R409     | ERJ3GEYJ101  | Carbon      | 100 ohms 1/16W  |
| R344     | ERJ3GEYJ822  | Carbon            | 8.2K ohms 1/16W | R410     | ERJ3GEYJ103  | Carbon      | 10K ohms 1/16W  |
| R345,346 | ERJ3GEYJ331  | Carbon            | 330 ohms 1/16W  | R411     | ERJ3GEYJ101  | Carbon      | 100 ohms 1/16W  |
| R347     | ERJ3GEYJ822  | Carbon            | 8.2K ohms 1/16W | R412     | ERJ3GEYJ103  | Carbon      | 10K ohms 1/16W  |
| R348     | ERJ3GEY0R00  | Carbon            | 0 ohm 1/16W     | R413     | ERJ3GEYJ101  | Carbon      | 100 ohms 1/16W  |
| R349     | ERJ3GEYJ472  | Carbon            | 4.7K ohms 1/16W | R414     | ERJ3GEYJ103  | Carbon      | 10K ohms 1/16W  |
| R350     | ERJ3GEYJ222  | Carbon            | 2.2K ohms 1/16W | R415     | ERJ3GEYJ101  | Carbon      | 100 ohms 1/16W  |
| R351     | ERJ3GEYJ472  | Carbon            | 4.7K ohms 1/16W | R416     | ERJ3RHD222V  | Metal       | 2.2K ohms 1/16W |
| R352     | ERJ3GEY0R00  | Carbon            | 0 ohm 1/16W     | R417     | ERJ3RHD153V  | Metal       | 15K ohms 1/16W  |
| R353     | ERJ3GEYJ222  | Carbon            | 2.2K ohms 1/16W | R418     | ERJ3GEYJ331  | Carbon      | 330 ohms 1/16W  |
| R354     | ERJ3GEYJ473  | Carbon            | 47K ohms 1/16W  | R419     | ERJ3GEYJ914V | Carbon      | 910K ohms 1/16W |
| R355     | ERJ3GEYJ472  | Carbon            | 4.7K ohms 1/16W | R420     | ERJ3RHD203V  | Metal       | 20K ohms 1/16W  |
| R356,357 | ERJ3GEYJ222  | Carbon            | 2.2K ohms 1/16W | R421     | ERJ3RHD432V  | Metal       | 4.3K ohms 1/16W |
| R358     | ERJ3GEYJ223  | Carbon            | 22K ohms 1/16W  | R422     | ERJ3RHD512V  | Metal       | 5.1K ohms 1/16W |
| R359     | ERJ3GEYJ100  | Carbon            | 10 ohms 1/16W   | R423     | ERJ3RHD751V  | Metal       | 750 ohms 1/16W  |
| R360,361 | ERJ3GEYJ103  | Carbon            | 10K ohms 1/16W  | R424     | ERJ3RHD683V  | Metal       | 68K ohms 1/16W  |
| R362,363 | ERJ3GEYJ223  | Carbon            | 22K ohms 1/16W  | R425     | ERJ3GEYJ223  | Carbon      | 22K ohms 1/16W  |
| R364     | ERJ3GEYJ101  | Carbon            | 100 ohms 1/16W  | R426     | ERJ3GEYJ101  | Carbon      | 100 ohms 1/16W  |
| R365     | ERJ3GEYJ333  | Carbon            | 33K ohms 1/16W  | R427     | ERJ3RHD242V  | Metal       | 2.4K ohms 1/16W |
| R366     | ERJ3GEYJ473  | Carbon            | 47K ohms 1/16W  | R428     | ERJ3GEYJ153  | Carbon      | 15K ohms 1/16W  |
| R367     | ERJ3GEYJ103  | Carbon            | 10K ohms 1/16W  | R429,430 | ERJ3RHD471V  | Metal       | 470 ohms 1/16W  |
| R368     | ERJ3GEYJ472  | Carbon            | 4.7K ohms 1/16W | R431     | ERJ3GEYJ101  | Carbon      | 100 ohms 1/16W  |
| R369     | ERJ3GEYJ222  | Carbon            | 2.2K ohms 1/16W | R432     | ERJ3RHD102V  | Metal       | 1K ohms 1/16W   |
| R370,371 | ERJ3GEYJ101  | Carbon            | 100 ohms 1/16W  | R433     | ERJ3GEYJ223  | Carbon      | 22K ohms 1/16W  |
| R372     | ERJ3GEYJ112V | Carbon            | 1.1K ohms 1/16W | R435     | ERJ3GEYJ101  | Carbon      | 100 ohms 1/16W  |
| R373     | ERJ3GEYJ101  | Carbon            | 100 ohms 1/16W  | R436     | ERJ3RHD202V  | Metal       | 2K ohms 1/16W   |



| REF. NO. | PART NO.     | DESCRIPTION       |                 | REF. NO. | PART NO.     | DESCRIPTION |                 |
|----------|--------------|-------------------|-----------------|----------|--------------|-------------|-----------------|
| R374     | ERJ3GEYJ152  | Carbon            | 1.5K ohms 1/16W | R542,543 | ERJ3GEYJ331  | Carbon      | 330 ohms 1/16W  |
| R375     | ERJ3GEY0R00  | Carbon            | 0 ohm 1/16W     | R544     | ERJ3GEYJ822  | Carbon      | 8.2K ohms 1/16W |
| R376     | ERJ3GEYJ152  | Carbon            | 1.5K ohms 1/16W | R545,546 | ERJ3GEYJ331  | Carbon      | 330 ohms 1/16W  |
| R437     | ERJ3GEYJ222  | Carbon            | 2.2K ohms 1/16W | R547     | ERJ3GEYJ822  | Carbon      | 8.2K ohms 1/16W |
| R438     | ERJ3GEYJ102  | Carbon            | 1K ohms 1/16W   | R548     | ERJ3GEY0R00  | Carbon      | 0 ohm 1/16W     |
| R439     | ERJ3GEYJ222  | Carbon            | 2.2K ohms 1/16W | R549     | ERJ3GEYJ472  | Carbon      | 4.7K ohms 1/16W |
| R440     | ERJ3GEY0R00  | Carbon            | 0 ohm 1/16W     | R550     | ERJ3GEYJ222  | Carbon      | 2.2K ohms 1/16W |
| R444     | ERJ3GEYJ472  | Carbon            | 4.7K ohms 1/16W | R551     | ERJ3GEYJ472  | Carbon      | 4.7K ohms 1/16W |
| R445     | ERJ3GEYJ102  | Carbon            | 1K ohms 1/16W   | R552     | ERJ3GEY0R00  | Carbon      | 0 ohm 1/16W     |
| R446     | EVM7JSW30B53 | Variable Resistor | 5K ohms 1/20W   | R553     | ERJ3GEYJ222  | Carbon      | 2.2K ohms 1/16W |
| R447     | ERJ3GEYJ152  | Carbon            | 1.5K ohms 1/16W | R554     | ERJ3GEYJ473  | Carbon      | 47K ohms 1/16W  |
| R448     | ERJ3GEYJ101  | Carbon            | 100 ohms 1/16W  | R555     | ERJ3GEYJ472  | Carbon      | 4.7K ohms 1/16W |
| R449     | ERJ3GEYJ222  | Carbon            | 2.2K ohms 1/16W | R556,557 | ERJ3GEYJ222  | Carbon      | 2.2K ohms 1/16W |
| R451     | ERJ3GEY0R00  | Carbon            | 0 ohm 1/16W     | R558     | ERJ3GEYJ223  | Carbon      | 22K ohms 1/16W  |
| R455,456 | ERJ3GEYJ682  | Carbon            | 6.8K ohms 1/16W | R559     | ERJ3GEYJ100  | Carbon      | 10 ohms 1/16W   |
| R457     | ERJ3GEYJ472  | Carbon            | 4.7K ohms 1/16W | R560,561 | ERJ3GEYJ103  | Carbon      | 10K ohms 1/16W  |
| R458     | ERJ3GEYJ103  | Carbon            | 10K ohms 1/16W  | R562,563 | ERJ3GEYJ223  | Carbon      | 22K ohms 1/16W  |
| R501     | ERJ3GEYJ752V | Carbon            | 7.5K ohms 1/16W | R564     | ERJ3GEYJ101  | Carbon      | 100 ohms 1/16W  |
| R502     | ERJ3GEYJ821  | Carbon            | 820 ohms 1/16W  | R565     | ERJ3GEYJ333  | Carbon      | 33K ohms 1/16W  |
| R503     | ERJ3GEYJ223  | Carbon            | 22K ohms 1/16W  | R566     | ERJ3GEYJ473  | Carbon      | 47K ohms 1/16W  |
| R504     | ERJ3GEYJ153  | Carbon            | 15K ohms 1/16W  | R567     | ERJ3GEYJ103  | Carbon      | 10K ohms 1/16W  |
| R505     | ERJ3GEY0R00  | Carbon            | 0 ohm 1/16W     | R568     | ERJ3GEYJ472  | Carbon      | 4.7K ohms 1/16W |
| R506     | ERJ3GEYJ752V | Carbon            | 7.5K ohms 1/16W | R569     | ERJ3GEYJ222  | Carbon      | 2.2K ohms 1/16W |
| R507     | ERJ3GEYJ241V | Carbon            | 240 ohms 1/16W  | R570,571 | ERJ3GEYJ101  | Carbon      | 100 ohms 1/16W  |
| R508     | ERJ3GEYJ101  | Carbon            | 100 ohms 1/16W  | R572     | ERJ3GEYJ112V | Carbon      | 1.1K ohms 1/16W |
| R509     | ERJ3GEYJ472  | Carbon            | 4.7K ohms 1/16W | R573     | ERJ3GEYJ101  | Carbon      | 100 ohms 1/16W  |
| R510     | ERJ3GEY0R00  | Carbon            | 0 ohm 1/16W     | R574     | ERJ3GEYJ152  | Carbon      | 1.5K ohms 1/16W |
| R511,512 | ERJ3GEYJ153  | Carbon            | 15K ohms 1/16W  | R575     | ERJ3GEY0R00  | Carbon      | 0 ohm 1/16W     |
| R513     | ERJ3GEY0R00  | Carbon            | 0 ohm 1/16W     | R576     | ERJ3GEYJ152  | Carbon      | 1.5K ohms 1/16W |
| R514     | ERJ3GEYJ122  | Carbon            | 1.2K ohms 1/16W | R577     | ERJ3GEYJ822  | Carbon      | 8.2K ohms 1/16W |
| R515     | ERJ3GEYJ220  | Carbon            | 22 ohms 1/16W   | R578     | ERJ3GEYJ103  | Carbon      | 10K ohms 1/16W  |
| R516     | ERJ3GEYJ303V | Carbon            | 30K ohms 1/16W  | R579     | ERJ3GEYJ473  | Carbon      | 47K ohms 1/16W  |
| R517     | ERJ3GEYJ153  | Carbon            | 15K ohms 1/16W  | R580     | ERJ3GEYJ121  | Carbon      | 120 ohms 1/16W  |
| R518     | ERJ3GEYJ272  | Carbon            | 2.7K ohms 1/16W | R581     | ERJ3GEY0R00  | Carbon      | 0 ohm 1/16W     |
| R519     | ERJ3GEYJ821  | Carbon            | 820 ohms 1/16W  | R582     | ERJ3GEYJ471  | Carbon      | 470 ohms 1/16W  |
| R521     | ERJ3GEYJ472  | Carbon            | 4.7K ohms 1/16W | R583     | ERJ3GEYJ682  | Carbon      | 6.8K ohms 1/16W |
| R522     | ERJ3GEYJ332  | Carbon            | 3.3K ohms 1/16W | R584     | ERJ3GEYJ681  | Carbon      | 680 ohms 1/16W  |
| R523     | EVM7JSW30B53 | Variable Resistor | 5K ohms 1/20W   | R585     | ERJ3GEYJ682  | Carbon      | 6.8K ohms 1/16W |
| R524     | ERJ3GEY0R00  | Carbon            | 0 ohms 1/16W    | R586     | ERJ3GEYJ222  | Carbon      | 2.2K ohms 1/16W |
| R525     | ERJ3GEYJ752V | Carbon            | 7.5K ohms 1/16W | R587     | ERJ3GEYJ223  | Carbon      | 22K ohms 1/16W  |
| R526     | ERJ3GEYJ102  | Carbon            | 1K ohms 1/16W   | R588     | ERJ3GEYJ203V | Carbon      | 20K ohms 1/16W  |
| R527     | ERJ3GEYJ151  | Carbon            | 150 ohms 1/16W  | R589     | ERJ3GEYJ103  | Carbon      | 10K ohms 1/16W  |
| R528     | EVM7JSW30B12 | Variable Resistor | 100 ohms        | R590     | ERJ3GEYJ683  | Carbon      | 68K ohms 1/16W  |
| R530     | ERJ3GEYJ562  | Carbon            | 5.6K ohms 1/16W | R592     | ERJ3GEYJ563  | Carbon      | 56K ohms 1/16W  |
| R531     | ERJ3GEYJ102  | Carbon            | 1K ohms 1/16W   | R593     | ERJ3GEYJ222  | Carbon      | 2.2K ohms 1/16W |
| R532     | ERJ3GEYJ221  | Carbon            | 220 ohms 1/16W  | R594     | ERJ3GEYJ101  | Carbon      | 100 ohms 1/16W  |
| R533     | ERJ3GEYJ752V | Carbon            | 7.5K ohms 1/16W | R595     | ERJ3GEYJ102  | Carbon      | 1K ohms 1/16W   |
| R534     | ERJ3GEY0R00  | Carbon            | 0 ohm 1/16W     | R596,597 | ERJ3GEYJ223  | Carbon      | 22K ohms 1/16W  |
| R535     | ERJ3GEYJ153  | Carbon            | 15K ohms 1/16W  | R598     | ERJ3GEYJ101  | Carbon      | 100 ohms 1/16W  |
| R536     | ERJ3GEYJ561  | Carbon            | 560 ohms 1/16W  | R599     | ERJ3GEYJ223  | Carbon      | 22K ohms 1/16W  |
| R537     | ERJ3GEYJ392  | Carbon            | 3.9K ohms 1/16W | R600     | ERJ3GEYJ823V | Carbon      | 82K ohms 1/16W  |
| R538     | ERJ3GEYJ751V | Carbon            | 750 ohms 1/16W  | R601,602 | ERJ3GEYJ392  | Carbon      | 3.9K ohms 1/16W |
| R539     | ERJ3GEYJ752V | Carbon            | 7.5K ohms 1/16W | R603     | ERJ3GEYJ183  | Carbon      | 18K ohms 1/16W  |
| R540     | ERJ3GEYJ362V | Carbon            | 3.6K ohms 1/16W | R604     | ERJ3GEYJ682  | Carbon      | 6.8K ohms 1/16W |
| R541     | ERJ3GEYJ152  | Carbon            | 1.5K ohms 1/16W | R605     | ERJ3GEYJ222  | Carbon      | 2.2K ohms 1/16W |

| REF. NO. | PART NO.     | DESCRIPTION       |                 | REF. NO. | PART NO.     | DESCRIPTION       |                 |
|----------|--------------|-------------------|-----------------|----------|--------------|-------------------|-----------------|
| R606     | ERJ3GEYJ101  | Carbon            | 100 ohms 1/16W  | R717     | ERJ3GEYJ102  | Carbon            | 1K ohms 1/16W   |
| R607     | ERJ3GEYJ222  | Carbon            | 2.2K ohms 1/16W | R718     | ERJ3GEYJ332  | Carbon            | 3.3K ohms 1/16W |
| R608     | ERJ3GEYJ103  | Carbon            | 10K ohms 1/16W  | R719     | ERJ3RHD273V  | Metal             | 27K ohms 1/16W  |
| R609     | ERJ3GEYJ101  | Carbon            | 100 ohms 1/16W  | R720     | ERJ3RHD433V  | Metal             | 43K ohms 1/16W  |
| R610     | ERJ3GEYJ103  | Carbon            | 10K ohms 1/16W  | R721     | ERJ3RIID563V | Metal             | 56K ohms 1/16W  |
| R611     | ERJ3GEYJ101  | Carbon            | 100 ohms 1/16W  | R724     | ERJ3RHD123V  | Metal             | 12K ohms 1/16W  |
| R612     | ERJ3GEYJ103  | Carbon            | 10K ohms 1/16W  | R725     | ERJ3RHD511V  | Metal             | 510 ohms 1/16W  |
| R613     | ERJ3GEYJ101  | Carbon            | 100 ohms 1/16W  | R726-728 | ERJ3RHD103V  | Metal             | 10K ohms 1/16W  |
| R614     | ERJ3GEYJ103  | Carbon            | 10K ohms 1/16W  | R729     | ERJ3GEYJ102  | Carbon            | 1K ohms 1/16W   |
| R615     | ERJ3GEYJ101  | Carbon            | 100 ohms 1/16W  | R730-732 | ERJ3RHD473V  | Metal             | 47K ohms 1/16W  |
| R616     | ERJ3RHD222V  | Metal             | 2.2K ohms 1/16W | R733     | ERJ3RHD393V  | Metal             | 39K ohms 1/16W  |
| R617     | ERJ3RHD153V  | Metal             | 15K ohms 1/16W  | R734     | ERJ3GEYJ102  | Carbon            | 1K ohms 1/16W   |
| R618     | ERJ3GEYJ331  | Carbon            | 330 ohms 1/16W  | R735     | ERJ3GEYJ101  | Carbon            | 100 ohms 1/16W  |
| R619     | ERJ3GEYJ914V | Carbon            | 910K ohms 1/16W | R736-738 | ERJ3GEYJ104V | Carbon            | 100K ohms 1/16W |
| R620     | ERJ3RHD203V  | Metal             | 20K ohms 1/16W  | R739     | ERJ3RHD393V  | Metal             | 39K ohms 1/16W  |
| R621     | ERJ3RHD432V  | Metal             | 4.3K ohms 1/16W | R740     | ERJ3RHD203V  | Metal             | 20K ohms 1/16W  |
| R622     | ERJ3RHD512V  | Metal             | 5.1K ohms 1/16W | R741     | ERJ3RHD103V  | Metal             | 10K ohms 1/16W  |
| R623     | ERJ3RHD751V  | Metal             | 750 ohms 1/16W  | R742     | ERJ3RHD472V  | Metal             | 4.7K ohms 1/16W |
| R624     | ERJ3RHD683V  | Metal             | 68K ohms 1/16W  | R743     | ERJ3GEYJ331  | Carbon            | 330 ohms 1/16W  |
| R625     | ERJ3GEYJ223  | Carbon            | 22K ohms 1/16W  | R744     | ERJ3GEYJ682  | Carbon            | 6.8K ohms 1/16W |
| R626     | ERJ3GEYJ101  | Carbon            | 100 ohms 1/16W  | R745     | ERJ3GEYJ223  | Carbon            | 22K ohms 1/16W  |
| R627     | ERJ3RHD242V  | Metal             | 2.4K ohms 1/16W | R746     | ERJ3GEYJ473  | Carbon            | 47K ohms 1/16W  |
| R628     | ERJ3GEYJ153  | Carbon            | 15K ohms 1/16W  | R747     | ERJ3GEYJ681  | Carbon            | 680 ohms 1/16W  |
| R629,630 | ERJ3RHD471V  | Metal             | 470 ohms 1/16W  | R748     | ERJ3GEYJ101  | Carbon            | 100 ohms 1/16W  |
| R631     | ERJ3GEYJ101  | Carbon            | 100 ohms 1/16W  | R749     | ERJ3GEYJ183  | Carbon            | 18K ohms 1/16W  |
| R632     | ERJ3RHD102V  | Metal             | 1K ohms 1/16W   | R750     | ERJ3GEYJ103  | Carbon            | 10K ohms 1/16W  |
| R633     | ERJ3GEYJ223  | Carbon            | 22K ohms 1/16W  | R751     | ERJ3GEYJ223  | Carbon            | 22K ohms 1/16W  |
| R635     | ERJ3GEYJ101  | Carbon            | 100 ohms 1/16W  | R752     | ERJ3GEYJ473  | Carbon            | 47K ohms 1/16W  |
| R636     | ERJ3RHD202V  | Metal             | 2K ohms 1/16W   | R753     | ERJ3GEYJ101  | Carbon            | 100 ohms 1/16W  |
| R637     | ERJ3GEYJ222  | Carbon            | 2.2K ohms 1/16W | R754     | ERJ3GEYJ821  | Carbon            | 820 ohms 1/16W  |
| R638     | ERJ3GEYJ102  | Carbon            | 1K ohms 1/16W   | R757     | ERJ3GEYJ223  | Carbon            | 22K ohms 1/16W  |
| R639     | ERJ3GEYJ222  | Carbon            | 2.2K ohms 1/16W | R758     | ERJ3GEYJ473  | Carbon            | 47K ohms 1/16W  |
| R640     | ERJ3GEY0R00  | Carbon            | 0 ohms 1/16W    | R759     | ERJ3GEYJ101  | Carbon            | 100 ohms 1/16W  |
| R644     | ERJ3GEYJ472  | Carbon            | 4.7K ohms 1/16W | R760     | EVM7JSW30B54 | Variable Resistor | 50K ohms 1/20W  |
| R645     | ERJ3GEYJ681  | Carbon            | 680 ohms 1/16W  | R761     | ERJ3GEYJ103  | Carbon            | 10K ohms 1/16W  |
| R646     | EVM7JSW30B23 | Variable Resistor | 2K ohms 1/20W   | R762     | ERJ3GEYJ101  | Carbon            | 100 ohms 1/16W  |
| R647     | ERJ3GEYJ472  | Carbon            | 4.7K ohms 1/16W | R771     | ERJ3GEYJ103  | Carbon            | 10K ohms 1/16W  |
| R648     | ERJ3GEYJ101  | Carbon            | 100 ohms 1/16W  | R772,773 | ERJ3GEYJ223  | Carbon            | 22K ohms 1/16W  |
| R649     | ERJ3GEYJ222  | Carbon            | 2.2K ohms 1/16W | R774     | EVM7JSW30B54 | Variable Resistor | 50K ohms 1/20W  |
| R655,656 | ERJ3GEYJ682  | Carbon            | 6.8K ohms 1/16W | R775     | ERJ3GEYJ473  | Carbon            | 47K ohms 1/16W  |
| R657     | ERJ3GEYJ472  | Carbon            | 4.7K ohms 1/16W | R776     | EVM7JSW30B54 | Variable Resistor | 50K ohms 1/20W  |
| R658     | ERJ3GEYJ103  | Carbon            | 10K ohms 1/16W  | R777     | ERJ3GEYJ473  | Carbon            | 47K ohms 1/16W  |
| R701-703 | ERJ3RHD473V  | Metal             | 47K ohms 1/16W  | R778     | EVM7JSW30B54 | Variable Resistor | 50K ohms 1/20W  |
| R704     | ERJ3RHD513V  | Metal             | 51K ohms 1/16W  | R779     | ERJ3GEYJ473  | Carbon            | 47K ohms 1/16W  |
| R705     | ERJ3GEYJ102  | Carbon            | 1K ohms 1/16W   | R780     | ERJ3GEYJ103  | Carbon            | 10K ohms 1/16W  |
| R706     | ERJ3GEYJ101  | Carbon            | 100 ohms 1/16W  | R781     | ERJ3GEYJ242  | Carbon            | 2.4K ohms 1/16W |
| R707,708 | ERJ3RHD473V  | Metal             | 47K ohms 1/16W  | R782     | ERJ3GEYJ392  | Carbon            | 3.9K ohms 1/16W |
| R709     | ERJ3RHD132V  | Metal             | 1.3K ohms 1/16W | R783     | EVM7JSW30B54 | Variable Resistor | 50K ohms 1/20W  |
| R710     | ERJ3RHD203V  | Metal             | 20K ohms 1/16W  | R784     | ERJ3GEYJ473  | Carbon            | 47K ohms 1/16W  |
| R711     | ERJ3RHD623V  | Metal             | 62K ohms 1/16W  | R785     | EVM7JSW30B54 | Variable Resistor | 50K ohms 1/20W  |
| R712     | ERJ3GEYJ102  | Carbon            | 1K ohms 1/16W   | R786     | ERJ3GEYJ473  | Carbon            | 47K ohms 1/16W  |
| R713     | ERJ3GEYJ101  | Carbon            | 100 ohms 1/16W  | R787     | EVM7JSW30B54 | Variable Resistor | 50K ohms 1/20W  |
| R714     | ERJ3RHD103V  | Metal             | 10K ohms 1/16W  | R788     | ERJ3GEYJ473  | Carbon            | 47K ohms 1/16W  |
| R715     | ERJ3GEYF510V | Carbon            | 51 ohms 1/16W   | R789     | ERJ3GEYJ103  | Carbon            | 10K ohms 1/16W  |
| R716     | ERJ3RHD122V  | Metal             | 1.2K ohms 1/16W | R790,791 | ERJ3GEYJ223  | Carbon            | 22K ohms 1/16W  |

| REF. NO. | PART NO.     | DESCRIPTION       |                 | REF. NO. | PART NO.     | DESCRIPTION  |            |
|----------|--------------|-------------------|-----------------|----------|--------------|--------------|------------|
| R792     | LVM7JSW30B54 | Variable Resistor | 50K ohms 1/20W  | C101     | YGM1C220J1HT | Ceramic      | 22 pF      |
| R793     | ERJ3GEYJ473  | Carbon            | 47K ohms 1/16W  | C102     | YGM1C100D1HT | Ceramic      | 10 pF      |
| R794     | EVM7JSW30B54 | Variable Resistor | 50K ohms 1/20W  | C103     | GRM9CH150J5H | Ceramic      | 15 pF      |
| R795     | ERJ3GEYJ473  | Carbon            | 47K ohms 1/16W  | C104     | YGM1C100D1HT | Ceramic      | 10 pF      |
| R796     | LVM7JSW30B54 | Variable Resistor | 50K ohms 1/20W  | C105     | F3F1C1060002 | Tantalum     | 10 µF 16V  |
| R797     | ERJ3GEYJ473  | Carbon            | 47K ohms 1/16W  | C106     | F3G1C2260001 | Tantalum     | 22 µF 16V  |
| R800     | ERJ3GEYJ223  | Carbon            | 22K ohms 1/16W  | C107,108 | YGM1F104Z1ET | Ceramic      | 0.1 µF 25V |
| R801     | EVM7JSW30B54 | Variable Resistor | 50K ohms 1/20W  | C109     | YGM1C390J1HT | Ceramic      | 39 pF      |
| R802     | ERJ3GEYJ473  | Carbon            | 47K ohms 1/16W  | C110     | YWSK51A106MA | Tantalum     | 10 µF 10V  |
| R803     | EVM7JSW30B54 | Variable Resistor | 50K ohms 1/20W  | C111     | YWK210C100R  | Electrolytic | 10 µF 10V  |
| R804     | ERJ3GEYJ473  | Carbon            | 47K ohms 1/16W  | C112     | YGM1C220J1HT | Ceramic      | 22 pF      |
| R805     | EVM7JSW30B54 | Variable Resistor | 50K ohms 1/20W  | C113     | SK31C476MRD0 | Tantalum     | 47 µF 16V  |
| R806     | ERJ3GEYJ473  | Carbon            | 47K ohms 1/16W  | C116     | YWSK51A106MA | Tantalum     | 10 µF 10V  |
| R807-809 | ERJ3GEYJ103  | Carbon            | 10K ohms 1/16W  | C117,119 | YGM1F104Z1ET | Ceramic      | 0.1 µF 25V |
| R810     | ERJ3GEYJ333  | Carbon            | 33K ohms 1/16W  | C120     | SK31C476MRD0 | Tantalum     | 47 µF 16V  |
| R811     | ERJ3RHD472V  | Metal             | 4.7K ohms 1/16W | C121     | YWSK41A476MC | Tantalum     | 47 µF 10V  |
| R812     | ERJ3RHD102V  | Metal             | 1K ohms 1/16W   | C122     | YGM1F104Z1ET | Ceramic      | 0.1 µF 25V |
| R813     | ERJ3GEYF300V | Carbon            | 30 ohms 1/16W   | C124     | YGM1F105Z1AT | Ceramic      | 1 µF       |
| R814     | ERJ3RHD121V  | Metal             | 120 ohms 1/16W  | C125     | YGM1C020C1HT | Ceramic      | 2 pF       |
| R815     | ERJ3RHD331V  | Metal             | 330 ohms 1/16W  | C126     | YGM1F105Z1AT | Ceramic      | 1 µF       |
| R816     | ERJ3GEYF470V | Carbon            | 47K ohms 1/16W  | C127     | F3G1C1560001 | Tantalum     | 15 µF 16V  |
| R817     | ERJ3RHD181V  | Metal             | 180 ohms 1/16W  | C129     | YGM1F104Z1ET | Ceramic      | 0.1 µF 25V |
| R818     | ERJ3GEYF470V | Carbon            | 47K ohms 1/16W  | C130     | F3G1C1560001 | Tantalum     | 15 µF 16V  |
| R819     | ERJ3RHD101V  | Metal             | 100 ohms 1/16W  | C131     | YGM1F104Z1ET | Ceramic      | 0.1 µF 25V |
| R820     | ERJ3GEYF150V | Carbon            | 15 ohms 1/16W   | C132     | F3G1C1560001 | Tantalum     | 15 µF 16V  |
| R821     | ERJ3GEY0R00  | Carbon            | 0 ohm 1/16W     | C133     | F1H1H471A004 | Ceramic      | 470 pF     |
| R822     | ERJ3GEYJ334V | Carbon            | 330K ohms 1/16W | C134     | GRM9CJ030C5H | Ceramic      | 3 pF       |
| R823     | ERJ3GEYJ224  | Carbon            | 220K ohms 1/16W | C135     | YGM1F104Z1ET | Ceramic      | 0.1 µF 25V |
| R824,826 | ERJ3GEYJ472  | Carbon            | 4.7K ohms 1/16W | C136     | SK40G107MC   | Tantalum     | 100 µF 4V  |
| R827     | ERJ3GEYJ103  | Carbon            | 10K ohms 1/16W  | C137     | F3G1C1560001 | Tantalum     | 15 µF 16V  |
| R834     | ERJ3RHD101V  | Metal             | 100 ohms 1/16W  | C139     | YGM1F105Z1AT | Ceramic      | 1 µF       |
| R835     | ERJ3RHD621V  | Metal             | 620 ohms 1/16W  | C140-143 | YGM1F104Z1ET | Ceramic      | 0.1 µF 25V |
| R855     | ERJ3GEY0R00  | Carbon            | 0 ohm 1/16W     | C144     | YGM1B103K1HT | Ceramic      | 0.01 µF    |
| R856     | D4B682400001 | Metal             | 6.8K ohms 1/16W | C145-150 | YGM1F104Z1ET | Ceramic      | 0.1 µF 25V |
| R857     | ERJ3GEY0R00  | Carbon            | 0 ohm 1/16W     | C151     | F3G1C1560001 | Tantalum     | 15 µF 16V  |
| R865     | ERJ3GEYJ162V | Carbon            | 1.6K ohms 1/16W | C152     | F1H1H270A231 | Ceramic      | 27 pF      |
| R866     | ERJ3GEYJ103  | Carbon            | 10K ohms 1/16W  | C156     | YGM1B103K1HT | Ceramic      | 0.01 µF    |
| R867     | ERJ3GEYJ393V | Carbon            | 39K ohms 1/16W  | C157     | F3G1C1560001 | Tantalum     | 15 µF 16V  |
| R868     | ERJ3GEYJ133V | Carbon            | 13K ohms 1/16W  | C158     | YGM1F104Z1ET | Ceramic      | 0.1 µF 25V |
| R869     | ERJ3GEYJ153  | Carbon            | 15K ohms 1/16W  | C159,160 | F3G1C1560001 | Tantalum     | 15 µF 16V  |
| R870     | ERJ3GEYJ202V | Carbon            | 2K ohms 1/16W   | C161     | YGM1F104Z1ET | Ceramic      | 0.1 µF 25V |
| R871     | ERJ3GEYJ302V | Carbon            | 3K ohms 1/16W   | C162     | YWSK51A106MA | Tantalum     | 10 µF 10V  |
| R872     | ERJ3GEYJ103  | Carbon            | 10K ohms 1/16W  | C163     | YGM1C060D1HT | Ceramic      | 6 pF       |
| R873,874 | ERJ3GEYJ203V | Carbon            | 20K ohms 1/16W  | C301     | YGM1C220J1HT | Ceramic      | 22 pF      |
| R875     | ERJ3GEYJ272  | Carbon            | 2.7K ohms 1/16W | C302     | YGM1C100D1HT | Ceramic      | 10 pF      |
| R876     | ERJ3GEYJ162V | Carbon            | 1.6K ohms 1/16W | C303     | GRM9CH150J5H | Ceramic      | 15 pF      |
| R877,878 | ERJ3GEYJ223  | Carbon            | 22K ohms 1/16W  | C304     | YGM1C100D1HT | Ceramic      | 10 pF      |
| R879     | ERJ3GEYJ242  | Carbon            | 2.4K ohms 1/16W | C305     | F3F1C1060002 | Tantalum     | 10 µF 16V  |
| R880     | ERJ3GEYJ103  | Carbon            | 10K ohms 1/16W  | C306     | F3G1C2260001 | Tantalum     | 22 µF 16V  |
| R881     | ERJ3GEYJ273  | Carbon            | 27K ohms 1/16W  | C307,308 | YGM1F104Z1ET | Ceramic      | 0.1 µF 25V |
| C1       | YGM1F105Z1AT | Ceramic           | 1 µF            | C309     | YGM1C390J1HT | Ceramic      | 39 pF      |
| C2       | GRM9CH151J5H | Ceramic           | 150 pF          | C310     | YWSK51A106MA | Tantalum     | 10 µF 10V  |
| C3       | YGM1F104Z1ET | Ceramic           | 0.1 µF 25V      | C311     | YWK210C100R  | Electrolytic | 10 µF 10V  |
| C4       | YGM1F105Z1AT | Ceramic           | 1 µF            | C312     | YGM1C220J1HT | Ceramic      | 22 pF      |
| C5       | YGM1B103K1HT | Ceramic           | 0.01 µF         | C313     | SK31C476MRD0 | Tantalum     | 47 µF 16V  |

| REF. NO. | PART NO.     | DESCRIPTION  |                 | REF. NO. | PART NO.      | DESCRIPTION  |                 |
|----------|--------------|--------------|-----------------|----------|---------------|--------------|-----------------|
| C316     | YWSK51A106MA | Tantalum     | 10 $\mu$ F 10V  | C533     | F1111I471A004 | Ceramic      | 470 pF          |
| C317,319 | YGM1F104Z1ET | Ceramic      | 0.1 $\mu$ F 25V | C534     | GRM9CJ030C5H  | Ceramic      | 3 pF            |
| C320     | SK31C476MRD0 | Tantalum     | 47 $\mu$ F 16V  | C535     | YGM1F104Z1ET  | Ceramic      | 0.1 $\mu$ F 25V |
| C321     | YWSK41A476MC | Tantalum     | 47 $\mu$ F 10V  | C536     | SK40G107MC    | Tantalum     | 100 $\mu$ F 4V  |
| C322     | YGM1F104Z1ET | Ceramic      | 0.1 $\mu$ F 25V | C537     | F3G1C1560001  | Tantalum     | 15 $\mu$ F 16V  |
| C324     | YGM1F105Z1AT | Ceramic      | 1 $\mu$ F       | C539     | YGM1F105Z1AT  | Ceramic      | 1 $\mu$ F       |
| C325     | YGM1C020C1HT | Ceramic      | 2 pF            | C540-543 | YGM1F104Z1ET  | Ceramic      | 0.1 $\mu$ F 25V |
| C326     | YGM1F105Z1AT | Ceramic      | 1 $\mu$ F       | C544     | YGM1B103K1HT  | Ceramic      | 0.01 $\mu$ F    |
| C327     | F3G1C1560001 | Tantalum     | 15 $\mu$ F 16V  | C545-550 | YGM1F104Z1ET  | Ceramic      | 0.1 $\mu$ F 25V |
| C329     | YGM1F104Z1ET | Ceramic      | 0.1 $\mu$ F 25V | C551     | F3G1C1560001  | Tantalum     | 15 $\mu$ F 16V  |
| C330     | F3G1C1560001 | Tantalum     | 15 $\mu$ F 16V  | C552     | F1H1H270A231  | Ceramic      | 27 pF           |
| C331     | YGM1F104Z1ET | Ceramic      | 0.1 $\mu$ F 25V | C556     | YGM1B103K1HT  | Ceramic      | 0.01 $\mu$ F    |
| C332     | F3G1C1560001 | Tantalum     | 15 $\mu$ F 16V  | C557     | F3G1C1560001  | Tantalum     | 15 $\mu$ F 16V  |
| C333     | F1H1H471A004 | Ceramic      | 470 pF          | C558     | YGM1F104Z1ET  | Ceramic      | 0.1 $\mu$ F 25V |
| C334     | GRM9CJ030C5H | Ceramic      | 3 pF            | C559,560 | F3G1C1560001  | Tantalum     | 15 $\mu$ F 16V  |
| C335     | YGM1F104Z1ET | Ceramic      | 0.1 $\mu$ F 25V | C561     | YGM1F104Z1ET  | Ceramic      | 0.1 $\mu$ F 25V |
| C336     | SK40G107MC   | Tantalum     | 100 $\mu$ F 4V  | C563     | YGM1C060D1HT  | Ceramic      | 6 pF            |
| C337     | F3G1C1560001 | Tantalum     | 15 $\mu$ F 16V  | C701     | YGM1F104Z1ET  | Ceramic      | 0.1 $\mu$ F 25V |
| C339     | YGM1F105Z1AT | Ceramic      | 1 $\mu$ F       | C702     | SK41C336MC    | Tantalum     | 33 $\mu$ F 6.3V |
| C340-343 | YGM1F104Z1ET | Ceramic      | 0.1 $\mu$ F 25V | C703     | YGM1F104Z1ET  | Ceramic      | 0.1 $\mu$ F 25V |
| C344     | YGM1B103K1HT | Ceramic      | 0.01 $\mu$ F    | C704     | YGM1F105Z1AT  | Ceramic      | 1 $\mu$ F       |
| C345-350 | YGM1F104Z1ET | Ceramic      | 0.1 $\mu$ F 25V | C705     | SK41C336MC    | Tantalum     | 33 $\mu$ F 6.3V |
| C351     | F3G1C1560001 | Tantalum     | 15 $\mu$ F 16V  | C706     | YGM1F104Z1ET  | Ceramic      | 0.1 $\mu$ F 25V |
| C352     | F1H1H270A231 | Ceramic      | 27 pF           | C707     | SK41A107ME    | Tantalum     | 100 $\mu$ F 10V |
| C356     | YGM1B103K1HT | Ceramic      | 0.01 $\mu$ F    | C708,709 | YGM1F104Z1ET  | Ceramic      | 0.1 $\mu$ F 25V |
| C357     | F3G1C1560001 | Tantalum     | 15 $\mu$ F 16V  | C711     | YGM1F104Z1ET  | Ceramic      | 0.1 $\mu$ F 25V |
| C358     | YGM1F104Z1ET | Ceramic      | 0.1 $\mu$ F 25V | C712     | F3G1A3360001  | Tantalum     | 33 $\mu$ F 10V  |
| C359,360 | F3G1C1560001 | Tantalum     | 15 $\mu$ F 16V  | C713,714 | YGM1F105Z1AT  | Ceramic      | 1 $\mu$ F       |
| C361     | YGM1F104Z1ET | Ceramic      | 0.1 $\mu$ F 25V | C715,716 | YGM1F104Z1ET  | Ceramic      | 0.1 $\mu$ F 25V |
| C363     | YGM1C060D1HT | Ceramic      | 6 pF            | C717     | SK41C336MC    | Tantalum     | 33 $\mu$ F 6.3V |
| C501     | YGM1C220J1HT | Ceramic      | 22 pF           | C718,719 | YGM1F104Z1ET  | Ceramic      | 0.1 $\mu$ F 25V |
| C502     | YGM1C100D1HT | Ceramic      | 10 pF           | C720     | GRM9B472K5H   | Ceramic      | 4700 pF         |
| C503     | GRM9CH150J5H | Ceramic      | 15 pF           | C721     | GRM9B222K5H   | Ceramic      | 2200 pF         |
| C504     | YGM1C100D1HT | Ceramic      | 10 pF           | C722     | YGM1F104Z1ET  | Ceramic      | 0.1 $\mu$ F 25V |
| C505     | F3F1C1060002 | Tantalum     | 10 $\mu$ F 16V  | C724     | GRM9CH101J5H  | Ceramic      | 100 pF          |
| C506     | F3G1C2260001 | Tantalum     | 22 $\mu$ F 16V  | C726     | YGM1F104Z1ET  | Ceramic      | 0.1 $\mu$ F 25V |
| C507,508 | YGM1F104Z1ET | Ceramic      | 0.1 $\mu$ F 25V | C727-730 | SK21A225KRA   | Electrolytic | 2.2 $\mu$ F 10V |
| C509     | YGM1C390J1HT | Ceramic      | 39 pF           | C731     | YGM1F104Z1ET  | Ceramic      | 0.1 $\mu$ F 25V |
| C510     | YWSK51A106MA | Tantalum     | 10 $\mu$ F 10V  | C732     | F3G1C1560001  | Tantalum     | 15 $\mu$ F 16V  |
| C511     | YWK210C100R  | Electrolytic | 10 $\mu$ F 10V  | C733     | YGM1F105Z1AT  | Ceramic      | 1 $\mu$ F       |
| C512     | YGM1C220J1HT | Ceramic      | 22 pF           | C734     | F1H1H102A190  | Ceramic      | 1000 pF         |
| C513     | SK31C476MRD0 | Tantalum     | 47 $\mu$ F 16V  | C735,736 | F3G1C1560001  | Tantalum     | 15 $\mu$ F 16V  |
| C516     | YWSK51A106MA | Tantalum     | 10 $\mu$ F 10V  | C737     | YGM1F105Z1AT  | Ceramic      | 1 $\mu$ F       |
| C517,519 | YGM1F104Z1ET | Ceramic      | 0.1 $\mu$ F 25V | C738     | YGM1F104Z1ET  | Ceramic      | 0.1 $\mu$ F 25V |
| C520     | SK31C476MRD0 | Tantalum     | 47 $\mu$ F 16V  | E101-105 | YWRCT2125TPV  | Terminal Pin |                 |
| C521     | YWSK41A476MC | Tantalum     | 47 $\mu$ F 10V  | E107,301 | YWRCT2125TPV  | Terminal Pin |                 |
| C522     | YGM1F104Z1ET | Ceramic      | 0.1 $\mu$ F 25V | E302-305 | YWRCT2125TPV  | Terminal Pin |                 |
| C524     | YGM1F105Z1AT | Ceramic      | 1 $\mu$ F       | E307,501 | YWRCT2125TPV  | Terminal Pin |                 |
| C525     | YGM1C020C1HT | Ceramic      | 2 pF            | E502-505 | YWRCT2125TPV  | Terminal Pin |                 |
| C526     | YGM1F105Z1AT | Ceramic      | 1 $\mu$ F       | E507,701 | YWRCT2125TPV  | Terminal Pin |                 |
| C527     | F3G1C1560001 | Tantalum     | 15 $\mu$ F 16V  | CF101    | J0E6504B0002  | Filter       |                 |
| C529     | YGM1F104Z1ET | Ceramic      | 0.1 $\mu$ F 25V | CF102    | J0E1305B0001  | Filter       |                 |
| C530     | F3G1C1560001 | Tantalum     | 15 $\mu$ F 16V  | CF301    | J0E6504B0002  | Filter       |                 |
| C531     | YGM1F104Z1ET | Ceramic      | 0.1 $\mu$ F 25V | CF302    | J0E1305B0001  | Filter       |                 |
| C532     | F3G1C1560001 | Tantalum     | 15 $\mu$ F 16V  | CF501    | J0E6504B0002  | Filter       |                 |

| REF. NO.           | PART NO.     | DESCRIPTION                           | REF. NO. | PART NO.     | DESCRIPTION            |
|--------------------|--------------|---------------------------------------|----------|--------------|------------------------|
| CF502              | J0C1305B0001 | Filter                                | U15      | YWMC145407Γ  | IC                     |
| P1                 | K1MZ10B00003 | 10-pin Connector                      | U16      | YWNJM4556AM  | IC                     |
| P2                 | K1MR70B00002 | 70-pin Connector                      | U17      | YWTC7W14FUL  | IC                     |
| L101,301           | G1C2R7J00003 | Coil                                  | U18      | YWM62352GP   | IC                     |
| L501               | G1C2R7J00003 | Coil                                  | U19      | NJM2904M     | IC                     |
| S701               | SKHHLS       | Skhhls Push Switch                    | U20-22   | C1AB00000324 | IC                     |
| S702               | SKHHLR       | Skhhlr Push Switch                    | U23,24   | YWVY06632    | IC                     |
| S703,704           | SKHHLQ       | Skhhlq Push Switch                    | U25      | YWVY06633    | IC                     |
|                    |              |                                       | U27      | NJM2902M     | IC                     |
|                    |              |                                       | U28,29   | C0JBAE000004 | IC                     |
| <b>JOINT BOARD</b> |              |                                       | U32      | C0JBAE000004 | IC                     |
| PCB3 (RTL)         | WE800EKD2A   | Printed Circuit Board Ass'y           | U33      | UL1A529A     | IC                     |
| U1                 | C0JBAR000023 | IC                                    | U34      | MC74HC4046AF | IC                     |
| Q1                 | 2SD0874AHL   | Transistor                            | U35      | Y1LC272CPS   | IC                     |
| Q2                 | 2SD1819ARSLX | Transistor                            | U37      | C0JBAE000004 | IC                     |
| D1                 | MAZ307500L   | Diode                                 | U38      | YWMB40950    | IC                     |
| R1                 | ERJ3GEYJ104V | Carbon 100K ohms 1/16W                | U39      | YWMC74AC138M | IC                     |
| R2                 | ERJ3GEYJ512V | Carbon 5.1K ohms 1/16W                | U40      | NJM2904M     | IC                     |
| R3                 | ERJ3GEYJ104V | Carbon 100K ohms 1/16W                | U41,42   | C0JBAA000115 | IC                     |
| C1,2               | YGM1F104Z1ET | Ceramic 0.1 μF 25V                    | Q1       | IMZ1T9       | Transistor             |
| C3                 | F3G1C2260001 | Tantalum 22 μF 16V                    | Q2       | 2SB07660HL   | Transistor             |
| SF1                | K5H101A00003 | Current Fuse                          | Q3       | B1ABCF000059 | Transistor             |
| P1                 | K1MR70B00001 | 70-pin Connector                      | Q4       | 2SB07660HL   | Transistor             |
| P2                 | K1MR70B00002 | 70-pin Connector                      | Q5       | B1ABCF000059 | Transistor             |
| P3                 | PANB1A061    | 12-pin Connector                      | Q6       | 2SB07660HL   | Transistor             |
| P4                 | K1MR70B00002 | 70-pin Connector                      | Q7       | B1ABCF000059 | Transistor             |
| P5                 | K1MR70B00002 | 70-pin Connector                      | Q8       | 2SB07660HL   | Transistor             |
| P6                 | PANB1A061    | 12-pin Connector                      | Q9       | B1ABCF000059 | Transistor             |
| P7                 | K1MR70B00001 | 70-pin Connector                      | Q10      | 2SB07660HL   | Transistor             |
| P8                 | K1KB30B00014 | 30-pin Connector                      | Q11-14   | B1ABCF000059 | Transistor             |
| P9                 | K1MR70B00001 | 70-pin Connector                      | D1       | MA3J142K0L   | Diode                  |
| P10                | K1KA02A00065 | 2-pin Connector                       | D2,3     | MA3J14300L   | Diode                  |
| M27                | YW7G1B016A   | Fuse Change Label                     | R1       | ERJ3GEYJ101  | Carbon 100 ohms 1/16W  |
|                    |              |                                       | R2       | ERJ3GEYJ473  | Carbon 47K ohms 1/16W  |
|                    |              |                                       | R3       | ERJ3GEYJ101  | Carbon 100 ohms 1/16W  |
|                    |              |                                       | R4,5     | ERJ3GEYJ473  | Carbon 47K ohms 1/16W  |
|                    |              |                                       | R6       | ERJ3GEYJ103  | Carbon 10K ohms 1/16W  |
|                    |              |                                       | R7       | ERJ3GEYJ203V | Carbon 20K ohms 1/16W  |
|                    |              |                                       | R8       | ERJ3GEYJ473  | Carbon 47K ohms 1/16W  |
|                    |              |                                       | R9,11    | ERJ3GEYJ220  | Carbon 22 ohms 1/16W   |
| <b>DSP BOARD</b>   |              |                                       | R12-38   | ERJ3GEYJ220  | Carbon 22 ohms 1/16W   |
| PCB4 (RTL)         | WE800PKZ1A   | Printed Circuit Board Ass'y for E800  | R39      | ERJ3GEY0R00  | Carbon 0 ohm 1/16W     |
| U1                 | WE800EKZ1A   | Printed Circuit Board Ass'y for E800E | R40,41   | ERJ3GEYJ473  | Carbon 47K ohms 1/16W  |
| U2                 | YWTC7W14FUL  | IC                                    | R42,43   | ERJ3RHD103V  | Metal 10K ohms 1/16W   |
| U3                 | C0BBBA000024 | IC                                    | R44      | ERJ3GEYJ682  | Carbon 6.8K ohms 1/16W |
| U4                 | YWM51957BFP  | IC                                    | R45      | ERJ3GEYJ472  | Carbon 4.7K ohms 1/16W |
| U5                 | C0JBAA000148 | IC                                    | R46,47   | ERJ3GEYJ473  | Carbon 47K ohms 1/16W  |
| U6                 | UL1A532A     | IC                                    | R48      | ERJ3GEYJ222  | Carbon 2.2K ohms 1/16W |
| U7                 | YWBR9040FT1  | IC                                    | R49      | ERJ3GEYJ101  | Carbon 100 ohms 1/16W  |
| U8,9               | UPD6465GT611 | IC                                    | R50      | ERJ3GEYJ222  | Carbon 2.2K ohms 1/16W |
| U10                | C0JBAB000005 | IC                                    | R51      | ERJ3GEYJ104V | Carbon 100K ohms 1/16W |
| U11                | YWTC7SH32FUL | IC                                    | R52      | ERJ3GEYJ510  | Carbon 51 ohms 1/16W   |
| U12                | C0JBAA000148 | IC                                    | R53      | ERJ3GEYJ101  | Carbon 100 ohms 1/16W  |
| U13                | C0JBAB000004 | IC                                    | R54      | ERJ3GEYJ513  | Carbon 51K ohms 1/16W  |
| U14                | C0JBAR000023 | IC                                    | R55      | ERJ3GEYJ102  | Carbon 1K ohms 1/16W   |
|                    | C0JBAA000022 | IC                                    |          |              |                        |

| REF. NO. | PART NO.     | DESCRIPTION |                 | REF. NO. | PART NO.     | DESCRIPTION |                             |
|----------|--------------|-------------|-----------------|----------|--------------|-------------|-----------------------------|
| R56      | ERJ3GEYJ473  | Carbon      | 47K ohms 1/16W  | R193,194 | ERJ3GEY0R00  | Carbon      | 0 ohm 1/16W                 |
| R57      | ERJ3GEYJ103  | Carbon      | 10K ohms 1/16W  | R195     | ERJ3GEYJ101  | Carbon      | 100 ohms 1/16W              |
| R58,59   | ERJ3GEYJ104V | Carbon      | 100K ohms 1/16W | R196,197 | ERJ3GEYJ473  | Carbon      | 47K ohms 1/16W              |
| R60,61   | ERJ3GEYJ221  | Carbon      | 220 ohms 1/16W  | R200,220 | ERJ3GEY0R00  | Carbon      | 0 ohm 1/16W<br>for AW-E000  |
| R62      | ERJ3GEYJ470  | Carbon      | 47 ohms 1/16W   |          |              |             |                             |
| R63      | ERJ3GEYJ332  | Carbon      | 3.3K ohms 1/16W | R221-223 | ERJ3GEY0R00  | Carbon      | 0 ohm 1/16W                 |
| R64      | ERJ3GEYJ472  | Carbon      | 4.7K ohms 1/16W | R224     | ERJ3RHD202V  | Metal       | 2K ohms 1/16W               |
| R65-70   | ERJ3GEYJ101  | Carbon      | 100 ohms 1/16W  | R225     | ERJ3GEY0R00  | Carbon      | 0 ohm 1/16W                 |
| R71      | ERJ3GEYJ433V | Carbon      | 43K ohms 1/16W  | R226     | ERJ3GEYJ101  | Carbon      | 100 ohms 1/16W              |
| R72,73   | ERJ3GEYJ272  | Carbon      | 2.7K ohms 1/16W | R227     | ERJ3RHD302V  | Metal       | 3K ohms 1/16W               |
| R74      | ERJ3GEYJ433V | Carbon      | 43K ohms 1/16W  | R228-230 | ERJ3GEY0R00  | Carbon      | 0 ohm 1/16W                 |
| R75      | ERJ3GEYJ470  | Carbon      | 47 ohms 1/16W   | R231     | ERJ3GEYJ101  | Carbon      | 100 ohms 1/16W              |
| R76      | ERJ3GEYJ202V | Carbon      | 2K ohms 1/16W   | R232     | ERJ3GEYJ152  | Carbon      | 1.5K ohms 1/16W             |
| R77,78   | ERJ3GEYJ103  | Carbon      | 10K ohms 1/16W  | R233     | ERJ3GEY0R00  | Carbon      | 0 ohm 1/16W                 |
| R83,87   | ERJ3GEYJ102  | Carbon      | 1K ohms 1/16W   | R234     | ERJ3GEYJ101  | Carbon      | 100 ohms 1/16W              |
| R88,89   | ERJ3GEYJ102  | Carbon      | 1K ohms 1/16W   | R235     | ERJ3GEYJ152  | Carbon      | 1.5K ohms 1/16W             |
| R94,98   | ERJ3GEYJ102  | Carbon      | 1K ohms 1/16W   | R236     | ERJ3GEY0R00  | Carbon      | 0 ohm 1/16W                 |
| R99,100  | ERJ3GEYJ102  | Carbon      | 1K ohms 1/16W   | R237     | ERJ3GEYJ101  | Carbon      | 100 ohms 1/16W              |
| R101-107 | ERJ3GEY0R00  | Carbon      | 0 ohm 1/16W     | R238     | ERJ3GEYJ152  | Carbon      | 1.5K ohms 1/16W             |
| R110-115 | ERJ3GEY0R00  | Carbon      | 0 ohm 1/16W     | R239     | ERJ3GEY0R00  | Carbon      | 0 ohm 1/16W<br>for AW-E800E |
| R116     | ERJ3GEYJ102  | Carbon      | 1K ohms 1/16W   | R240     | ERJ3RHD362V  | Metal       | 3.6K ohms 1/16W             |
| R117-125 | ERJ3GEYJ473  | Carbon      | 47K ohms 1/16W  | R241     | ERJ3RHD332V  | Metal       | 3.3K ohms 1/16W             |
| R126     | ERJ3GEYJ100  | Carbon      | 10 ohms 1/16W   | R242     | ERJ3RHD103V  | Metal       | 10K ohms 1/16W              |
| R127     | ERJ3GEYJ473  | Carbon      | 47K ohms 1/16W  | C1       | YGM1F104Z1ET | Ceramic     | 0.1 µF 25V                  |
| R128-137 | ERJ3RHD202V  | Metal       | 2K ohms 1/16W   | C2       | YGM1F105Z1AT | Ceramic     | 1 µF                        |
| R138     | ERJ3RHD751V  | Metal       | 750 ohms 1/16W  | C3-7     | YGM1F104Z1ET | Ceramic     | 0.1 µF 25V                  |
| R139-147 | ERJ3RHD102V  | Metal       | 1K ohms 1/16W   | C8       | YWSK51A106MA | Tantalum    | 10 µF 10V                   |
| R148     | ERJ3RHD202V  | Metal       | 2K ohms 1/16W   | C9-13    | YGM1F104Z1ET | Ceramic     | 0.1 µF 25V                  |
| R149     | ERJ3RHD203V  | Metal       | 20K ohms 1/16W  | C14      | YWSK51A106MA | Tantalum    | 10 µF 10V                   |
| R150     | ERJ3RHD153V  | Metal       | 15K ohms 1/16W  | C15      | YGM1F104Z1ET | Ceramic     | 0.1 µF 25V                  |
| R151     | ERJ3RHD152V  | Metal       | 1.5K ohms 1/16W | C16      | F1H1H300A004 | Ceramic     | 30 pF 50V                   |
| R152     | ERJ3RHD182V  | Metal       | 1.8K ohms 1/16W | C17      | GRM9CH150J5H | Ceramic     | 15 pF                       |
| R153     | ERJ3GEY0R00  | Carbon      | 0 ohm 1/16W     | C18      | YGM1F104Z1ET | Ceramic     | 0.1 µF 25V                  |
| R154     | ERJ3GEYJ101  | Carbon      | 100 ohms 1/16W  | C19      | GRM9CH101J5H | Ceramic     | 100 pF                      |
| R155     | ERJ3RHD302V  | Metal       | 3K ohms 1/16W   | C20,21   | YGM1F104Z1ET | Ceramic     | 0.1 µF 25V                  |
| R156     | ERJ3RHD202V  | Metal       | 2K ohms 1/16W   | C22      | YWSK41A476MC | Tantalum    | 47 µF 10V                   |
| R157     | ERJ3GEY0R00  | Carbon      | 0 ohm 1/16W     | C23      | GRM9CH101J5H | Ceramic     | 100 pF                      |
| R158     | ERJ3GEYJ101  | Carbon      | 100 ohms 1/16W  | C24      | YGM1F104Z1ET | Ceramic     | 0.1 µF 25V                  |
| R159     | ERJ3RHD302V  | Metal       | 3K ohms 1/16W   | C25,26   | F3H0J2260003 | Tantalum    | 22 µF 6.3V                  |
| R160     | ERJ3RHD202V  | Metal       | 2K ohms 1/16W   | C27      | YGM1F104Z1ET | Ceramic     | 0.1 µF 25V                  |
| R161     | ERJ3GEY0R00  | Carbon      | 0 ohm 1/16W     | C28      | F1H1H102A190 | Ceramic     | 1000 µF 50V                 |
| R162     | ERJ3GEYJ101  | Carbon      | 100 ohms 1/16W  | C29      | F3H1A2260003 | Tantalum    | 22 µF 10V                   |
| R163     | ERJ3RHD183V  | Metal       | 18K ohms 1/16W  | C30-32   | YGM1F104Z1ET | Ceramic     | 0.1 µF 25V                  |
| R164,165 | ERJ3RHD103V  | Metal       | 10K ohms 1/16W  | C33      | GRM9CH101J5H | Ceramic     | 100 pF                      |
| R166     | ERJ3RHD202V  | Metal       | 2K ohms 1/16W   | C34-37   | SK31E106KRC  | Tantalum    | 10 µF 25V                   |
| R167     | ERJ3GEY0R00  | Carbon      | 0 ohm 1/16W     | C38      | SK41C336MC   | Tantalum    | 22 µF 6.3V                  |
| R168     | ERJ3GEYJ101  | Carbon      | 100 ohms 1/16W  | C39,41   | YGM1F104Z1ET | Ceramic     | 0.1 µF 25V                  |
| R169,172 | ERJ3GEYJ473  | Carbon      | 47K ohms 1/16W  | C43,44   | YGM1F104Z1ET | Ceramic     | 0.1 µF 25V                  |
| R177,180 | ERJ3GEY0R00  | Carbon      | 0 ohm 1/16W     | C46      | YGM1F104Z1ET | Ceramic     | 0.1 µF 25V                  |
| R181,184 | ERJ3GEY0R00  | Carbon      | 0 ohm 1/16W     | C47      | YGM1F105Z1AT | Ceramic     | 1 µF                        |
| R185     | ERJ3GEY0R00  | Carbon      | 0 ohm 1/16W     | C48-52   | YGM1F104Z1ET | Ceramic     | 0.1 µF 25V                  |
| R186     | ERJ3GEYJ822  | Carbon      | 8.2K ohms 1/16W | C53      | YGM1F105Z1AT | Ceramic     | 1 µF                        |
| R189,190 | ERJ3GEY0R00  | Carbon      | 0 ohm 1/16W     | C54-58   | YGM1F104Z1ET | Ceramic     | 0.1 µF 25V                  |
| R191     | ERJ3GEYJ101  | Carbon      | 100 ohms 1/16W  | C59      | YGM1F105Z1AT | Ceramic     | 1 µF                        |
| R192     | ERJ3GEYJ472  | Carbon      | 4.7K ohms 1/16W | C60-68   | YGM1F104Z1ET | Ceramic     | 0.1 µF 25V                  |

| REF. NO. | PART NO.     | DESCRIPTION             |                  | REF. NO.      | PART NO.   | DESCRIPTION   |
|----------|--------------|-------------------------|------------------|---------------|--|---|
| C69      | YWSK51A106MA | Tantalum                | 10 $\mu$ F 10V   | M33           | 1C1A114A   | Gasket C  |
| C70-78   | YGM1F104Z1ET | Ceramic                 | 0.1 $\mu$ F 25V  |               |  |   |
| C79      | YWSK51A106MA | Tantalum                | 10 $\mu$ F 10V   |               |  |   |
| C80-82   | YGM1F104Z1ET | Ceramic                 | 0.1 $\mu$ F 25V  |               |  |   |
| C83      | K210A2R2R    | Electrolytic            | 2.2 $\mu$ F 10V  |               |  |   |
| C84      | YGM1F104Z1ET | Ceramic                 | 0.1 $\mu$ F 25V  |               |  |   |
| C85      | SK41C336MC   | Tantalum                | 33 $\mu$ F 6.3V  |               |  |   |
| C86,87   | YWSK41A476MC | Tantalum                | 47 $\mu$ F 10V   |               |  |   |
| C88      | F3H0J2260003 | Tantalum                | 22 $\mu$ F 6.3V  |               |  |   |
| C89      | YWSK41A476MC | Tantalum                | 47 $\mu$ F 10V   |               |  |   |
| C90      | YGM1F104Z1ET | Ceramic                 | 0.1 $\mu$ F 25V  | ENCODER BOARD |  |   |
| C91      | YGM1C121J1HT | Ceramic                 | 120 pF           |               |  |   |
| C92,100  | YGM1F104Z1ET | Ceramic                 | 0.1 $\mu$ F 25V  |               |  |   |
| C101     | YWSK51A106MA | Tantalum                | 10 $\mu$ F 10V   |               |  |   |
| C102-105 | YGM1F104Z1ET | Ceramic                 | 0.1 $\mu$ F 25V  |               |  |   |
| C106     | F1H1H102A190 | Ceramic                 | 1000 $\mu$ F 50V | PCB5 (RTL)    | WE800PKY1A<br>WE800EKY1A<br>C0ABBA000025<br>C0FBAF000010<br>C0ABBA000063 | Printed Circuit Board Ass'y for AW-E800<br>Printed Circuit Board Ass'y for AW-E800E<br>IC<br>IC<br>IC<br>IC<br>IC |
| C108     | F3H1A4750001 | Tantalum                | 4.7 $\mu$ F 10V  |               |  |   |
| C109-111 | YGM1F104Z1ET | Ceramic                 | 0.1 $\mu$ F 25V  |               |  |   |
| C113     | YWSK41A476MC | Tantalum                | 47 $\mu$ F 10V   |               |  |   |
| C114-120 | YGM1F104Z1ET | Ceramic                 | 0.1 $\mu$ F 25V  |               |  |   |
| C121     | YWSK51A106MA | Tantalum                | 10 $\mu$ F 10V   |               |  |   |
| C122-125 | YGM1F104Z1ET | Ceramic                 | 0.1 $\mu$ F 25V  |               |  |   |
| C126     | YWSK51A106MA | Tantalum                | 10 $\mu$ F 10V   |               |  |   |
| C127-131 | YGM1F104Z1ET | Ceramic                 | 0.1 $\mu$ F 25V  |               |  |   |
| C132     | YWSK41A476MC | Tantalum                | 47 $\mu$ F 10V   |               |  |   |
| C134     | YGM1C470J1HT | Ceramic                 | 47 pF            | U5            | C0FBAF000010   | IC  |
| C135     | F1H1H270A231 | Ceramic                 | 27 pF            | U6            | C0ABBA000063   | IC  |
| C136     | YGM1C220J1HT | Ceramic                 | 22 pF            | U7            | C0FBAF000010   | IC  |
| C137     | YGM1C470J1HT | Ceramic                 | 47 pF            | U8            | F432532APGF  | IC  |
| C138     | F1H1H270A231 | Ceramic                 | 27 pF            | U9            | YWLM1881M  | IC  |
| C139     | YGM1C220J1HT | Ceramic                 | 22 pF            | U11           | C0JBAB0000220  | IC  |
| C140     | YGM1C470J1HT | Ceramic                 | 47 pF            | U12           | C0JBAB000003   | IC  |
| C141     | F1H1H270A231 | Ceramic                 | 27 pF            | U13           | C0JBZZ000138   | IC  |
| C142     | YGM1C220J1HT | Ceramic                 | 22 pF            | U14           | C0JBAB0000175  | IC  |
| C143     | SK41C336MC   | Tantalum                | 33 $\mu$ F 6.3V  | U15           | C0JBAZ000025   | IC  |
| C144     | YGM1F104Z1ET | Ceramic                 | 0.1 $\mu$ F 25V  | U16           | YULLW0106  | IC  |
| TP1-6    | YWRCT2125TPV | Terminal Pin            |                  | U17           | C0JBZZ000138   | IC  |
| P1,2     | K1MR70B00002 | 70-pin Connector        |                  | U18           | C0JBAB0000220  | IC  |
| P3       | K1JE50B00001 | 50-pin Connector        |                  | U19           | YULLW0031  | IC for AW-E800E   |
| P4       | K1KA30A00083 | 30-pin Connector        |                  | U20           | YWMB40950  | IC  |
| P5       | K1KB30A00061 | 30-pin Connector        |                  | U22           | YWNJM2902VT1   | IC  |
| P7       | K1KB80A00034 | 80-pin Connector        |                  | U23,24        | C0JBAB0000175  | IC  |
| P8       | K1KB60A00050 | 60-pin Connector        |                  | U25           | UL1A530A   | IC  |
| P9       | K1KB10B00008 | 10-pin Connector        |                  | Q2            | 2SB1218AHL   | Transistor  |
| L1,2     | G1C390J00001 | Coil                    |                  | Q3,4          | 2SC39310YL   | Transistor  |
| L3       | ELJFC4R7MF   | Coil                    |                  | Q5            | 2SB1218AHL   | Transistor  |
| L4       | G1C4R7J00002 | Coil                    |                  | Q6            | B1ABCF000059   | Transistor  |
| L5-7     | ELJFC4R7MF   | Coil                    |                  | Q7            | 2SC39310YL   | Transistor  |
| X1       | H0J120500001 | Crystal Oscillator Unit |                  | Q8,9          | B1ABCF000059   | Transistor  |
| X2       | H1C2705B0005 | Crystal Oscillator Unit |                  | Q10           | 2SC39310YL   | Transistor  |
| M28      | 5G1A068B     | Sheet                   |                  | Q11           | B1ABCF000059   | Transistor  |
| M29      | ASB2607      | Spacer                  |                  | Q12-14        | 2SC39310YL   | Transistor  |
| M30      | ASB2608      | Spacer                  |                  | Q15           | 2SD18200WL   | Transistor  |
| M31      | 1E1A020A     | Heat Sink               |                  | Q16           | 2SB1219AHL   | Transistor  |
| M32      | 5H1A056A     | Insulator               |                  | Q17           | 2SB1218AHL   | Transistor  |
|          |              |                         |                  | Q18,19        | B1ABCF000059   | Transistor  |
|          |              |                         |                  | Q20-22        | 2SC39310YL   | Transistor  |
|          |              |                         |                  | Q23           | 2SD18200WL   | Transistor  |
|          |              |                         |                  | Q24           | 2SB1219AHL   | Transistor  |
|          |              |                         |                  | Q25           | B1ABCF000059   | Transistor  |
|          |              |                         |                  | Q26           | 2SB1218AHL   | Transistor  |
|          |              |                         |                  | Q27           | B1ABCF000059   | Transistor  |
|          |              |                         |                  | Q28           | 2SC39310YL   | Transistor  |
|          |              |                         |                  | Q29           | B1ABCF000059   | Transistor  |
|          |              |                         |                  | Q30-32        | 2SC39310YL   | Transistor  |

| REF. NO. | PART NO.     | DESCRIPTION                        | REF. NO. | PART NO.     | DESCRIPTION                       |
|----------|--------------|------------------------------------|----------|--------------|-----------------------------------|
| Q33      | 2SD10200WL   | Transistor                         | R30      | ERJ3GEYJ394  | Carbon 390K ohms 1/16W            |
| Q34      | 2SB1219AHL   | Transistor                         | R39      | ERJ3GEYJ103  | Carbon 10K ohms 1/16W             |
| Q35-38   | XP0460100L   | Transistor                         | R40      | ERJ3RHD682V  | Metal 6.8K ohms 1/16W             |
| Q39,40   | 2SK106945TL  | Transistor                         | R41      | ERJ3GEYJ332  | Carbon 3.3K ohms 1/16W            |
| Q42      | 2SD1819ARSTX | Transistor for AW-E000             | R42      | ERJ3RIID222V | Metal 2.2K ohms 1/16W             |
| Q43      | B1ABAC000008 | Transistor                         | R43      | ERJ3RHD202V  | Metal 2K ohms 1/16W               |
| Q44      | 2SD1819ARSTX | Transistor                         | R44      | ERJ3RHD911V  | Metal 910 ohms 1/16W              |
| Q45      | 2SK106945TL  | Transistor                         | R45-48   | ERJ3GEYJ100  | Carbon 10 ohms 1/16W              |
| Q46      | XP0460100L   | Transistor                         | R49      | ERJ3GEYF680V | Carbon 68 ohms 1/16W              |
| Q47      | 2SD1819ARSTX | Transistor                         | R50      | ERJ3RHD472V  | Carbon 4.7K ohms 1/16W            |
| Q48      | 2SK106945TL  | Transistor                         | R51      | ERJ3RHD392V  | Carbon 3.9K ohms 1/16W            |
| Q49      | XP0460100L   | Transistor                         | R52      | ERJ3RHD472V  | Carbon 4.7K ohms 1/16W            |
| Q50      | 2SD1819ARSTX | Transistor                         | R53      | ERJ3GEYJ562  | Carbon 5.6K ohms 1/16W            |
| Q51      | 2SK106945TL  | Transistor                         | R54      | ERJ3GEYJ102  | Carbon 1K ohms 1/16W              |
| Q52      | XP0460100L   | Transistor                         | R55      | ERJ3GEYJ182  | Carbon 1.8K ohms 1/16W            |
| Q53      | 2SB1218AHL   | Transistor for AW-E800             | R56      | ERJ3GEYJ221  | Carbon 220 ohms 1/16W             |
| D1       | MA3J14300L   | Diode                              | R58      | ERJ3RHD202V  | Metal 2K ohms 1/16W               |
| D3,4     | YWHVU359TRF  | Diode                              | R59      | ERJ3GEYJ102  | Carbon 1K ohms 1/16W              |
| D8,9     | YWHVU359TRF  | Diode                              | R60      | ERJ3GEYJ472  | Carbon 4.7K ohms 1/16W            |
| R1-3     | ERJ3GEYJ473  | Carbon 47K ohms 1/16W              | R61      | ERJ3GEY0R00  | Carbon 0 ohm 1/16W for AW-E800E   |
| R4       | ERJ3GEY0R00  | Carbon 0 ohm 1/16W                 |          | ERJ3RHD471V  | Metal 470 ohms 1/16W for AW-E800  |
| R7       | ERJ3GEYJ752V | Carbon 7.5K ohms 1/16W             | R62      | ERJ3GEY0R00  | Carbon 0 ohm 1/16W for AW-E800E   |
| R8       | ERJ3GEYJ750  | Carbon 75 ohms 1/16W               |          | ERJ3RHD221V  | Metal 220 ohms 1/16W for AW-E800  |
| R9       | ERJ3GEYJ303V | Carbon 30K ohms 1/16W              | R63,64   | ERJ3RHD473V  | Metal 47K ohms 1/16W              |
| R11      | ERJ3GEYJ202V | Carbon 2K ohms 1/16W               | R65,66   | ERJ3GEY0R00  | Carbon 0 ohm 1/16W                |
| R12      | ERJ3GEYJ684  | Carbon 680K ohms 1/16W             | R67,68   | ERJ3RHD912V  | Metal 9.1K ohms 1/16W             |
| R13      | ERJ3GEYJ103  | Carbon 10K ohms 1/16W              | R69      | ERJ3GEYJ101  | Carbon 100 ohms 1/16W             |
| R14      | ERJ3GEYJ202V | Carbon 2K ohms 1/16W               | R70      | ERJ3GEYJ564V | Carbon 560K ohms 1/16W            |
| R15      | ERJ3GEYJ220  | Carbon 22 ohms 1/16W               | R71      | ERJ3GEYJ103  | Carbon 10K ohms 1/16W             |
| R16      | ERJ3GEYJ182  | Carbon 1.8K ohms 1/16W             | R72      | ERJ3RHD682V  | Metal 6.8K ohms 1/16W             |
| R17      | ERJ3GEYJ912V | Carbon 9.1K ohms 1/16W             | R73      | ERJ3GEYJ332  | Carbon 3.3K ohms 1/16W            |
| R18,19   | ERJ3GEYJ102  | Carbon 1K ohms 1/16W               | R74      | ERJ3RHD222V  | Metal 2.2K ohms 1/16W             |
| R20      | ERJ3GEYJ512V | Carbon 5.1K ohms 1/16W             | R75      | ERJ3RHD202V  | Metal 2K ohms 1/16W               |
| R21      | ERJ3GEY0R00  | Carbon 0 ohm 1/16W                 | R76-79   | ERJ3GEYJ100  | Carbon 10 ohms 1/16W              |
| R22      | ERJ3GEYJ101  | Carbon 100 ohms 1/16W              | R80      | ERJ3GEY0R00  | Carbon 0 ohm 1/16W                |
| R23      | ERJ3GEYJ152  | Carbon 1.5K ohms 1/16W             | R81      | ERJ3GEYF680V | Carbon 68 ohms 1/16W              |
| R24      | ERJ3RHD562V  | Metal 5.6K ohms 1/16W              | R82      | ERJ3GEY0R00  | Carbon 0 ohm 1/16W                |
| R25      | ERJ3GEYJ151  | Carbon 150 ohms 1/16W for AW-E800E | R83      | ERJ3GEYJ101  | Carbon 100 ohms 1/16W             |
|          | ERJ3GEYJ361V | Carbon 360 ohms 1/16W for AW-E800  | R84      | ERJ3GEYJ152  | Carbon 1.5K ohms 1/16W            |
| R26      | ERJ3RHD562V  | Metal 5.6K ohms 1/16W              | R85      | ERJ3GEYJ332  | Carbon 3.3K ohms 1/16W            |
| R27      | ERJ3GEYJ151  | Carbon 150 ohms 1/16W for AW-E800E | R86-88   | ERJ3GEYJ102  | Carbon 1K ohms 1/16W              |
|          | ERJ3RHD241V  | Metal 240 ohms 1/16W for AW-E800   | R89      | ERJ3RHD132V  | Metal 1.3K ohms 1/16W             |
| R28      | ERJ3RHD272V  | Metal 2.7K ohms 1/16W              | R90      | ERJ3GEYJ390V | Carbon 39 ohms 1/16W for AW-E800E |
| R29      | ERJ3GEYJ182  | Carbon 1.8K ohms 1/16W             |          | ERJ3RHD151V  | Metal 150 ohms 1/16W for AW-E800  |
| R30      | ERJ3GEYJ101  | Carbon 100 ohms 1/16W              | R91      | ERJ3RHD132V  | Metal 1.3K ohms 1/16W             |
| R31      | ERJ3GEYJ681  | Carbon 680 ohms 1/16W              | R92      | ERJ3GEYJ820  | Carbon 82 ohms 1/16W for AW-E800E |
| R32      | ERJ3GEYJ152  | Carbon 1.5K ohms 1/16W             |          | ERJ3RHD121V  | Metal 120 ohms 1/16W for AW-E800  |
| R33      | ERJ3RHD272V  | Metal 2.7K ohms 1/16W              | R93      | ERJ3GEYJ182  | Carbon 1.8K ohms 1/16W            |
| R34      | ERJ3GEYJ182  | Carbon 1.8K ohms 1/16W             | R94      | ERJ3RHD272V  | Metal 2.7K ohms 1/16W             |
| R35      | ERJ3GEYJ101  | Carbon 100 ohms 1/16W              |          |              |                                   |
| R36      | ERJ3GEYJ362V | Carbon 3.6K ohms 1/16W             |          |              |                                   |
| R37      | ERJ3GEYJ101  | Carbon 100 ohms 1/16W              |          |              |                                   |



| REF. NO. | PART NO.     | DESCRIPTION       |                                | REF. NO. | PART NO.     | DESCRIPTION             |                                |
|----------|--------------|-------------------|--------------------------------|----------|--------------|-------------------------|--------------------------------|
| R95      | ERJ3GEYJ101  | Carbon            | 100 ohms 1/16W                 | R145     | ERJ3GEYJ102  | Carbon                  | 1K ohms 1/16W                  |
| R96      | ERJ3GEYJ362V | Carbon            | 3.6K ohms 1/16W                | R146     | ERJ3GEYJ102  | Carbon                  | 1K ohms 1/16W<br>for AW-E800E  |
| R97      | ERJ3GEYJ101  | Carbon            | 100 ohms 1/16W                 | R148,153 | ERJ3GEY0R00  | Carbon                  | 0 ohm 1/16W                    |
| R98      | ERJ3GEYJ105  | Carbon            | 1M ohms 1/16W                  | R154     | ERJ3GEY0R00  | Carbon                  | 0 ohm 1/16W                    |
| R99      | ERJ3GEYJ103  | Carbon            | 10K ohms 1/16W                 |          |              |                         |                                |
| R100     | ERJ3GEYJ332  | Carbon            | 3.3K ohms 1/16W                | R155     | ERJ3GEYJ105  | Carbon                  | 1M ohms 1/16W                  |
| R101     | ERJ3RHD472V  | Metal             | 4.7K ohms 1/16W                | R156,157 | ERJ3GEYJ103  | Carbon                  | 10K ohms 1/16W                 |
| R102     | ERJ3RHD222V  | Metal             | 2.2K ohms 1/16W                | R158     | ERJ3GEY0R00  | Carbon                  | 0 ohms 1/16W                   |
| R103     | ERJ3RHD202V  | Metal             | 2K ohms 1/16W                  | R159     | ERJ3GEYJ102  | Carbon                  | 1K ohms 1/16W                  |
| R104     | ERJ3RHD911V  | Metal             | 910 ohms 1/16W                 | R160     | ERJ3GEYJ223  | Carbon                  | 22K ohms 1/16W                 |
| R105-108 | ERJ3GEYJ100  | Carbon            | 10 ohms 1/16W                  | R161     | ERJ3GEYJ561  | Carbon                  | 560 ohms 1/16W                 |
| R109     | ERJ3GEYF680V | Carbon            | 68 ohms 1/16W                  | R162     | ERJ3GEYJ272  | Carbon                  | 2.7K ohms 1/16W                |
| R110     | ERJ3GEYJ560  | Carbon            | 56 ohms 1/16W                  | R164     | ERJ3GEY0R00  | Carbon                  | 0 ohm 1/16W                    |
| R111     | ERJ3RHD911V  | Metal             | 910 ohms 1/16W                 | R170     | ERJ3GEYJ473  | Carbon                  | 47K ohms 1/16W                 |
| R112     | ERJ3GEYJ272  | Carbon            | 2.7K ohms 1/16W                | R171     | ERJ3GEY0R00  | Carbon                  | 0 ohm 1/16W                    |
| R113     | ERJ3GEYJ103  | Carbon            | 10K ohms 1/16W                 | R173-175 | ERJ3GEYJ102  | Carbon                  | 1K ohms 1/16W                  |
| R114     | ERJ3GEYJ512V | Carbon            | 5.1K ohms 1/16W                | R176     | ERJ3GEYJ332  | Carbon                  | 3.3K ohms 1/16W                |
| R115,116 | ERJ3GEYJ102  | Carbon            | 1K ohms 1/16W                  | R177     | ERJ3GEYJ392  | Carbon                  | 3.9K ohms 1/16W                |
| R117     | ERJ3GEYJ105  | Carbon            | 1M ohms 1/16W                  | R178     | ERJ3GEYJ332  | Carbon                  | 3.3K ohms 1/16W                |
| R118,119 | ERJ3GEYJ103  | Carbon            | 10K ohms 1/16W                 | R179     | ERJ3GEY0R00  | Carbon                  | 0 ohm 1/16W                    |
| R120     | ERJ3GEYJ751V | Carbon            | 750 ohms 1/16W<br>for AW-E800E | R180     | ERJ3GEYJ102  | Carbon                  | 1K ohms 1/16W                  |
|          | ERJ3GEYJ271  | Carbon            | 270 ohms 1/16W<br>for AW-E800  | R181     | ERJ3GEYJ332  | Carbon                  | 3.3K ohms 1/16W                |
| R121,122 | ERJ3GEYJ225  | Carbon            | 2.2M ohms 1/16W                | R182     | ERJ3GEYJ392  | Carbon                  | 3.9K ohms 1/16W                |
| R124     | ERJ3GEYJ103  | Carbon            | 10K ohms 1/16W<br>for AW-E800E | R183     | ERJ3GEYJ332  | Carbon                  | 3.3K ohms 1/16W                |
|          | ERJ3GEYJ473  | Carbon            | 47K ohms 1/16W<br>for AW-E800  | R184     | ERJ3GEYJ332  | Carbon                  | 3.3K ohms 1/16W                |
| R125     | ERJ3GEYJ471  | Carbon            | 470 ohms 1/16W<br>for AW-E800E | R185     | ERJ3GEYJ102  | Carbon                  | 1K ohms 1/16W                  |
|          | ERJ3GEYJ102  | Carbon            | 1K ohms 1/16W<br>for AW-E800   | R186     | ERJ3GEYJ362V | Carbon                  | 3.6K ohms 1/16W                |
| R126     | ERJ3GEYJ102  | Carbon            | 1K ohms 1/16W                  | R187     | ERJ3GEYJ272  | Carbon                  | 2.7K ohms 1/16W                |
| R127     | ERJ3GEY0R00  | Carbon            | 0 ohm 1/16W                    | R188     | D3EA34710001 | Variable Resistor       | 470 ohms 1/5W                  |
| R128     | ERJ3GEYJ473  | Carbon            | 47K ohms 1/16W                 | R189     | ERJ3GEYJ102  | Carbon                  | 1K ohms 1/16W                  |
| R129     | ERJ3GEYJ271  | Carbon            | 270 ohms 1/16W                 | R190     | D3EA34710001 | Variable Resistor       | 470 ohms 1/5W                  |
| R131     | ERJ3GEY0R00  | Carbon            | 0 ohm 1/16W<br>for AW-E800     | R191     | ERJ3GEY0R00  | Carbon                  | 0 ohm 1/16W                    |
| R132     | D3EA34710001 | Variable Resistor | 470 ohms 1/5W                  | R192     | D3EA31030003 | Variable Resistor       | 10K ohms 1/5W<br>for AW-E800E  |
| R133     | ERJ3GEYJ102  | Carbon            | 1K ohms 1/16W                  | R193-195 | ERJ3GEYJ473  | Carbon                  | 47K ohms 1/16W<br>for AW-E800  |
| R134     | ERJ3GEY0R00  | Carbon            | 0 ohm 1/16W<br>for AW-E800E    | R196     | ERJ3GEYJ152  | Carbon                  | 1.5K ohms 1/16W<br>for AW-E800 |
| R135     | ERJ3GEY0R00  | Carbon            | 0 ohm 1/16W                    | R198     | ERJ3GEY0R00  | Carbon                  | 0 ohm 1/16W                    |
| R136     | ERJ3GEYJ363V | Carbon            | 36K ohms 1/16W<br>for AW-E800  | R200     | ERJ3RHD392V  | Metal                   | 3.9K ohms 1/16W                |
| R137     | ERJ3GEYJ102  | Carbon            | 1K ohms 1/16W                  | RT201    | D4B332500001 | Thermo Sensing Resistor |                                |
| R138     | ERJ3GEYJ153  | Carbon            | 15K ohms 1/16W                 | C1       | YGM1F104Z1ET | Ceramic                 | 0.1 µF 25V                     |
| R139     | ERJ3GEYJ203V | Carbon            | 20K ohms 1/16W                 | C4       | YWSK51A106MA | Tantalum                | 10 µF 10V                      |
| R140     | D3EA31030003 | Variable Resistor | 10K ohms 1/5W                  | C5,6     | YGM1F104Z1ET | Ceramic                 | 0.1 µF 25V                     |
| R143     | ERJ3GEYJ473  | Carbon            | 47K ohms 1/16W                 | C7       | YWSK51A106MA | Tantalum                | 10 µF 10V                      |
| R144     | ERJ3GEYJ102  | Carbon            | 1K ohms 1/16W<br>for AW-E800E  | C8-10    | YGM1F104Z1ET | Ceramic                 | 0.1 µF 25V                     |
| R144     | ERJ3GEYJ331  | Carbon            | 300 ohms 1/16W<br>for AW-E800  | C13      | YWSK51A106MA | Tantalum                | 10 µF 10V                      |
|          |              |                   |                                | C14,15   | YGM1F104Z1ET | Ceramic                 | 0.1 µF 25V                     |
|          |              |                   |                                | C16      | YWSK51A106MA | Tantalum                | 10 µF 10V                      |
|          |              |                   |                                | C17-19   | YGM1F104Z1ET | Ceramic                 | 0.1 µF 25V                     |
|          |              |                   |                                | C22      | YWSK51A106MA | Tantalum                | 10 µF 10V                      |
|          |              |                   |                                | C23,24   | YGM1F104Z1ET | Ceramic                 | 0.1 µF 25V                     |
|          |              |                   |                                | C25      | YWSK51A106MA | Tantalum                | 10 µF 10V                      |
|          |              |                   |                                | C26,27   | YGM1F104Z1ET | Ceramic                 | 0.1 µF 25V                     |
|          |              |                   |                                | C31      | F3F1C1060002 | Tantalum                | 10 µF 16V                      |
|          |              |                   |                                | C32,33   | YGM1F104Z1ET | Ceramic                 | 0.1 µF 25V                     |

| REF. NO. | PART NO.      | DESCRIPTION  |                         | REF. NO. | PART NO.      | DESCRIPTION                          |                 |
|----------|---------------|--------------|-------------------------|----------|---------------|--------------------------------------|-----------------|
| C34      | YWSK51A106MA  | Tantalum     | 10 $\mu$ F 10V          | C87      | SK31A475KRA   | Tantalum                             | 4.7 $\mu$ F 10V |
| C35      | YGM1F104Z1ET  | Ceramic      | 0.1 $\mu$ F 25V         | C88,89   | YGM1F104Z1ET  | Ceramic                              | 0.1 $\mu$ F 25V |
| C36      | F3H1A2260003  | Tantalum     | 22 $\mu$ F 10V          | C91      | SK21A225KRA   | Tantalum                             | 2.2 $\mu$ F 10V |
| C37      | F1H1H270A231  | Ceramic      | 27 pF                   | C92      | YGM1B103K1HT  | Ceramic                              | 0.01 $\mu$ F    |
| C38      | YGM1C470J11IT | Ceramic      | 47 pF                   |          |               |                                      | for AW-E800E    |
| C39      | YGM1C220J1HT  | Ceramic      | 22 pF                   |          | F1H1HE223A002 | Ceramic                              | 0.022 $\mu$ F   |
| C40,41   | GRM9CH050C5H  | Ceramic      | 5 pF                    |          |               |                                      | for AW-E800     |
| C42      | YGM1F104Z1ET  | Ceramic      | 0.1 $\mu$ F 25V         | C93      | SK41A107ME    | Tantalum                             | 100 $\mu$ F 10V |
| C43      | F3H0J2260003  | Tantalum     | 22 $\mu$ F 6.3V         | C94      | YWSK51A106MA  | Tantalum                             | 10 $\mu$ F 10V  |
| C44      | YWSK51A106MA  | Tantalum     | 10 $\mu$ F 10V          |          |               |                                      | for AW-E800E    |
| C45      | YGM1F104Z1ET  | Ceramic      | 0.1 $\mu$ F 25V         | C95      | SK31A475KRA   | Tantalum                             | 4.7 $\mu$ F 10V |
| C46      | YWSK51A106MA  | Tantalum     | 10 $\mu$ F 10V          | C98      | YGM1F104Z1ET  | Ceramic                              | 0.1 $\mu$ F 25V |
| C47      | SK41C336MC    | Tantalum     | 33 $\mu$ F 6.3V         | C99      | SK31A475KRA   | Tantalum                             | 4.7 $\mu$ F 10V |
| C48      | YGM1C020C1HI  | Ceramic      | 2 pF                    | C100     | YGM1F104Z1ET  | Ceramic                              | 0.1 $\mu$ F 25V |
| C49      | GRM9CH151J5H  | Ceramic      | 150 pF                  | C101     | YWSK51A106MA  | Tantalum                             | 10 $\mu$ F 10V  |
| C50      | YGM1C560J1HT  | Ceramic      | 56 pF                   | C102     | YGM1F104Z1ET  | Ceramic                              | 0.1 $\mu$ F 25V |
|          |               |              | for AW-E800E            | C103     | YGM1B103K1HT  | Ceramic                              | 0.01 $\mu$ F    |
|          | F1H1H330A231  | Ceramic      | 33 pF                   | C104     | YWSK41A476MC  | Tantalum                             | 47 $\mu$ F 10V  |
| C51-54   | YWSK51A106MA  | Tantalum     | 10 $\mu$ F 10V          | C105-107 | YGM1F104Z1ET  | Ceramic                              | 0.1 $\mu$ F 25V |
| C55      | SK41C336MC    | Tantalum     | 33 $\mu$ F 6.3V         | C110,111 | YGM1C471J1HT  | Ceramic                              | 470 pF          |
| C56      | YGM1C040C1HT  | Ceramic      | 4 pF                    | C113     | F1H1H200A004  | Ceramic                              | 20 pF           |
| C57      | YGM1C020C1HT  | Ceramic      | 2 pF                    | C114,116 | YGM1F104Z1ET  | Ceramic                              | 0.1 $\mu$ F 25V |
| C58      | F3H1A2260003  | Tantalum     | 22 $\mu$ F 10V          | C117     | YGM1F104Z1ET  | Ceramic                              | 0.1 $\mu$ F 25V |
| C59      | F1H1H270A231  | Ceramic      | 27 pF                   | C118     | F3F1C1060002  | Tantalum                             | 10 $\mu$ F 16V  |
| C60      | YGM1C470J1HT  | Ceramic      | 47 pF                   | C119     | 5F224Z1VT     | Ceramic                              | 0.22 $\mu$ F    |
| C61      | YGM1C220J1HT  | Ceramic      | 22 pF                   | C120     | F3F1C1060002  | Tantalum                             | 10 $\mu$ F 16V  |
| C62      | YGM1F104Z1ET  | Ceramic      | 0.1 $\mu$ F 25V         | C121     | YGM1F104Z1ET  | Ceramic                              | 0.1 $\mu$ F 25V |
| C63      | YGM1F105Z1AT  | Ceramic      | 1 $\mu$ F               | C122     | 5F224Z1VT     | Ceramic                              | 0.22 $\mu$ F    |
| C64      | YWSK51A106MA  | Tantalum     | 10 $\mu$ F 10V          | C123     | F3F1C1060002  | Tantalum                             | 10 $\mu$ F 16V  |
| C65      | YGM1F104Z1ET  | Ceramic      | 0.1 $\mu$ F 25V         | C124     | YGM1F104Z1ET  | Ceramic                              | 0.1 $\mu$ F 25V |
| C66      | F3H0J2260003  | Tantalum     | 22 $\mu$ F 6.3V         | C125     | F3F1C1060002  | Tantalum                             | 10 $\mu$ F 16V  |
| C67      | YWSK51A106MA  | Tantalum     | 10 $\mu$ F 10V          | C126     | 5F224Z1VT     | Ceramic                              | 0.22 $\mu$ F    |
| C68      | SK41C336MC    | Tantalum     | 33 $\mu$ F 6.3V         | C127     | F3F1C1060002  | Tantalum                             | 10 $\mu$ F 16V  |
| C69      | YGM1C020C1HT  | Ceramic      | 2 pF                    | C128,129 | YGM1F104Z1ET  | Ceramic                              | 0.1 $\mu$ F 25V |
| C70      | F3H1A2260003  | Tantalum     | 22 $\mu$ F 10V          | C130     | F3F1C1060002  | Tantalum                             | 10 $\mu$ F 16V  |
| C71-74   | SK31A475KRA   | Tantalum     | 4.7 $\mu$ F 10V         | C131     | YGM1F104Z1ET  | Ceramic                              | 0.1 $\mu$ F 25V |
| C75      | YGM1F104Z1ET  | Ceramic      | 0.1 $\mu$ F 25V         | L1-6     | G1C4R7J00002  | Coil                                 |                 |
| C76      | YWSK40J686MC  | Tantalum     | 68 $\mu$ F 6.3V         | L7-11    | ELJFC4R7MF    | Coil                                 |                 |
| C77      | SK31A475KRA   | Tantalum     | 4.7 $\mu$ F 10V         | L12      | G1C4R7J00002  | Coil                                 |                 |
| C78      | YGM1F104Z1ET  | Ceramic      | 0.1 $\mu$ F 25V         | FL1      | YWNL4532S4R4  | Filter for AW-E800E                  |                 |
| C79      | F1H1H150A004  | Ceramic      | 15 pF                   | FL2      | YWNL4532S3R6  | Filter for AW-E800                   |                 |
| C80      | YGM1F105Z1AT  | Ceramic      | 1 $\mu$ F               |          | YWCY4W078     | Filter for AW-E800E                  |                 |
| C81      | YGM1C471J1HT  | Ceramic      | 470 pF                  | P1       | YWCY4W072     | Filter for AW-E800                   |                 |
| C82      | F1H1H200A004  | Ceramic      | 20 pF                   |          | K1KA60A00065  | 60-pin Connector                     |                 |
|          |               |              | for AW-E800E            | P2       | K1KA80A00037  | 80-pin Connector                     |                 |
|          | YGM1C390J1HT  | Ceramic      | 39 pF for AW-E800       | RT201    | L311J332G502  | Thermo Sensing Resistor for AW-E800E |                 |
| C83      | YGM1C471J1HT  | Ceramic      | 470 pF                  | X1       | H0J177500009  | Crystal Oscillator Unit for AW-E800E |                 |
| C84      | GRM9CH101J5H  | Ceramic      | 100 pF                  |          | H0J286500009  | Crystal Oscillator Unit for AW-E800  |                 |
| C85      | K216A1R0R     | Electrolytic | 1 $\mu$ F 16V           | X3       | H0J283500009  | Crystal Oscillator Unit for AW-E800E |                 |
|          |               |              | for AW-E800E            |          | H0J286500009  | Crystal Oscillator Unit for AW-E800  |                 |
| C86      | F1K1E1040003  | Ceramic      | 0.1 $\mu$ F for AW-E800 |          |               |                                      |                 |
|          | 5X122K5VT     | Ceramic      | 1200 pF 50V             |          |               |                                      |                 |

| REF. NO.    | PART NO.     | DESCRIPTION                 | REF. NO. | PART NO.     | DESCRIPTION            |
|-------------|--------------|-----------------------------|----------|--------------|------------------------|
| POWER BOARD |              |                             |          |              |                        |
| PCB6 (RTL)  | WE800EKB2A   | Printed Circuit Board Ass'y | R25      | ERJ3GEYJ103  | Carbon 10K ohms 1/16W  |
| U1          | C0BBBA000024 | IC                          | R26      | ERJ3GEYJ102  | Carbon 1K ohms 1/16W   |
| U2          | MC74HC161AF  | IC                          | R27      | ERJ3GEYJ103  | Carbon 10K ohms 1/16W  |
| U3          | MC74HC4046AF | IC                          | R28,29   | ERJ3GEY0R00  | Carbon 0 ohm 1/16W     |
| U4          | C0ABAA000001 | IC                          | R30      | ERJ3GEYJ102  | Carbon 1K ohms 1/16W   |
| U5,6        | YWMB3782PF   | IC                          | R31      | ERJ3GEYJ332  | Carbon 3.3K ohms 1/16W |
| U7          | C0JBAE000004 | IC                          | R32      | ERJ3GEYJ103  | Carbon 10K ohms 1/16W  |
| Q1          | B1DCCG000001 | Transistor                  | R33      | ERJ3GEYJ331  | Carbon 330 ohms 1/16W  |
| Q2          | 2SD1819ARSTX | Transistor                  | R34      | ERJ3RHD122V  | Carbon 1.2K ohms 1/16W |
| Q3          | 2SB1218ALL   | Transistor                  | R35      | ERJ3RHD273V  | Metal 27K ohms 1/16W   |
| Q4          | 2SB07660HL   | Transistor                  | R36      | ERJ3RHD302V  | Metal 3K ohms 1/16W    |
| Q5          | 2SD1819ARSTX | Transistor                  | R37      | ERJ3GEYJ102  | Carbon 1K ohms 1/16W   |
| Q6          | 2SJ132Z-T1   | Transistor                  | R38      | ERJ3GEYJ472  | Carbon 4.7K ohms 1/16W |
| Q7          | 2SD1819ARSTX | Transistor                  | R41      | ERJ3GEYJ103  | Carbon 10K ohms 1/16W  |
| Q8          | 2SB1218ALL   | Transistor                  | R42      | ERJ3GEYJ101  | Carbon 100K ohms 1/16W |
| Q9          | B1BCGC000001 | Transistor                  | R44      | ERJ3RHD103V  | Metal 10K ohms 1/16W   |
| Q10         | 2SD1819ARSTX | Transistor                  | R45      | ERJ3GEYJ330  | Carbon 33 ohms 1/16W   |
| Q11         | 2SJ132Z-T1   | Transistor                  | R46      | ERJ3RHD202V  | Metal 2K ohms 1/16W    |
| Q12         | 2SD1819ARSTX | Transistor                  | R47      | ERJ3RHD123V  | Metal 12K ohms 1/16W   |
| Q13         | 2SB1218ALL   | Transistor                  | R48      | ERJ3RHD103V  | Metal 10K ohms 1/16W   |
| Q14         | 2SD1819ARSTX | Transistor                  | R50      | ERJ3GEYJ103  | Carbon 10K ohms 1/16W  |
| Q15         | 2SB1218ALL   | Transistor                  | R51      | ERJ3GEYJ151  | Carbon 150 ohms 1/16W  |
| Q16-18      | 2SJ132Z-T1   | Transistor                  | R52      | ERJ3RHD303V  | Metal 30K ohms 1/16W   |
| Q19         | B1BCGC000001 | Transistor                  | R53      | ERJ3RHD203V  | Metal 20K ohms 1/16W   |
| Q20,21      | 2SD1819ARSTX | Transistor                  | R54      | ERJ3RHD103V  | Metal 10K ohms 1/16W   |
| Q22,23      | 2SB1218ALL   | Transistor                  | R55      | ERJ3GEYJ103  | Carbon 10K ohms 1/16W  |
| Q24         | 2SD1819ARSTX | Transistor                  | R57-59   | ERJ3GEYJ181  | Carbon 180K ohms 1/16W |
| Q25         | 2SK1284-Z-E1 | Transistor                  | R60      | ERJ3RHD473V  | Metal 47K ohms 1/16W   |
| Q26         | B1DCCG000001 | Transistor                  | R61      | ERJ3RHD302V  | Metal 3K ohms 1/16W    |
| Q27         | 2SK1133-T1B  | Transistor                  | R62      | ERJ3RHD103V  | Metal 10K ohms 1/16W   |
| Q28         | 2SJ132Z-T1   | Transistor                  | R63      | ERJ3GEYJ101  | Carbon 100 ohms 1/16W  |
| Q29         | 2SD1819ARSTX | Transistor                  | R64      | ERJ3RHD243V  | Metal 24K ohms 1/16W   |
| Q30         | 2SB1218ALL   | Transistor                  | R65      | ERJ3RHD223V  | Metal 22K ohms 1/16W   |
| Q31         | 2SD1819ARSTX | Transistor                  | R66      | ERJ3RHD103V  | Metal 10K ohms 1/16W   |
| Q32         | 2SB12190WL   | Transistor                  | R67      | ERJ3GEYJ103  | Carbon 10K ohms 1/16W  |
| Q37         | 2SB1218ALL   | Transistor                  | R68      | ERJ3GEYJ331  | Carbon 330 ohms 1/16W  |
| D2-8        | YWSC80204R   | Diode                       | R69      | ERJ3GEYJ103  | Carbon 10K ohms 1/16W  |
| D10         | YWSC80204R   | Diode                       | R70,71   | ERJ3GEYJ331  | Carbon 330 ohms 1/16W  |
| D11         | MAZ508200L   | Diode                       | R72      | ERJ3GEYJ103  | Carbon 10K ohms 1/16W  |
| D12         | YWMA3062MTX  | Diode                       | R73      | ERJ3RHD123V  | Metal 12K ohms 1/16W   |
| R1          | ERJ3RHD163V  | Metal 16K ohms 1/16W        | R74      | ERJ3RHD122V  | Metal 1.2K ohms 1/16W  |
| R2          | ERJ3RHD822V  | Metal 8.2K ohms 1/16W       | R76,77   | ERJ3RHD103V  | Metal 10K ohms 1/16W   |
| R13,14      | ERJ3RHD103V  | Metal 10K ohms 1/16W        | R78      | ERJ3GEYJ914V | Carbon 910K ohms 1/16W |
| R15         | ERJ3GEYJ102  | Carbon 1K ohms 1/16W        | R79      | ERJ3GEYJ103  | Carbon 10K ohms 1/16W  |
| R16         | ERJ3GEYJ332  | Carbon 3.3K ohms 1/16W      | R80      | ERJ3GEYJ101  | Carbon 100 ohms 1/16W  |
| R17         | ERJ3RHD153V  | Metal 15K ohms 1/16W        | R81,82   | ERJ3GEYJ152  | Carbon 1.5K ohms 1/16W |
| R18         | ERJ3RHD103V  | Metal 10K ohms 1/16W        | R83,84   | ERJ3GEYJ103  | Carbon 10K ohms 1/16W  |
| R19-21      | ERJ3GEYJ103  | Carbon 10K ohms 1/16W       | R85,86   | ERJ3GEYJ473  | Carbon 47K ohms 1/16W  |
| R23         | ERJ3GEYJ511V | Carbon 510 ohms 1/16W       | R87      | ERJ3GEYJ472  | Carbon 4.7K ohms 1/16W |
| R24         | ERJ3GEYJ223  | Carbon 22K ohms 1/16W       | R88      | ERJ3GEYJ102  | Carbon 1K ohms 1/16W   |
|             |              |                             | R89      | ERJ3GEYJ821  | Carbon 820 ohms 1/16W  |
|             |              |                             | R90,91   | ERJ3GEYJ103  | Carbon 10K ohms 1/16W  |
|             |              |                             | R93      | ERJ3GEYJ101  | Carbon 100 ohms 1/16W  |
|             |              |                             | R94      | ERJ3GEYJ912V | Carbon 9.1K ohms 1/16W |
|             |              |                             | R95      | ERJ3GEYJ203V | Carbon 20K ohms 1/16W  |

| REF. NO. | PART NO.     | DESCRIPTION  |                   | REF. NO.               | PART NO.     | DESCRIPTION                 |                                 |
|----------|--------------|--------------|-------------------|------------------------|--------------|-----------------------------|---------------------------------|
| R96,97   | ERJ3GEYJ623V | Carbon       | 62K ohms 1/16W    | C57                    | SK21A225KRA  | Tantalum                    | 2.2 $\mu$ F 10V                 |
| R98,99   | ERJ3GEYJ103  | Carbon       | 10K ohms 1/16W    | C58,59                 | YGM1F104Z1ET | Ceramic                     | 0.1 $\mu$ F 25V                 |
| R100     | ERJ3GEYJ104V | Carbon       | 100K ohms 1/16W   | C60,61                 | YGM1B104Z1CT | Ceramic                     | 0.1 $\mu$ F 25V                 |
| R101     | ERJ3GEYJ103  | Carbon       | 10K ohms 1/16W    | C62,63                 | YGM1F105Z1AT | Ceramic                     | 1 $\mu$ F                       |
| R112     | ERJ3GEYJ512V | Carbon       | 5.1K ohms 1/16W   | C73                    | SK21A225KRA  | Tantalum                    | 2.2 $\mu$ F 10V                 |
| R116     | ERJ3GEYJ302V | Carbon       | 3K ohms 1/16W     | C74                    | SK31C476MRD0 | Tantalum                    | 47 $\mu$ F 16V                  |
| R117     | ERJ3GEYJ301  | Carbon       | 300 ohms 1/16W    | C82                    | YGM1F105Z1AT | Ceramic                     | 1 $\mu$ F                       |
| R118     | ERJ3RHD272V  | Metal        | 2.7K ohms 1/16W   | C85                    | K216A1R0R    | Electrolytic                | 1 $\mu$ F 16V                   |
| R121     | ERJ3RHD822V  | Metal        | 8.2K ohms 1/16W   |                        |              |                             | for AW-E800E                    |
| R122     | ERJ3RHD362V  | Metal        | 3.6K ohms 1/16W   |                        | F1K1E1040003 | Ceramic                     | 0.1 $\mu$ F 25V<br>for AW-E800  |
| R124-127 | ERJ3RHD103V  | Metal        | 10K ohms 1/16W    | C100                   | YGM1F104Z1ET | Ceramic                     | 0.1 $\mu$ F 25V<br>for AW-E800E |
| R128     | ERJ3RHD153V  | Metal        | 15K ohms 1/16W    | L1                     | CDPH73-391   | Choke Coil                  |                                 |
| R129     | ERJ3RHD102V  | Metal        | 1K ohms 1/16W     | L2                     | G1C560K00010 | Choke Coil                  |                                 |
| R138     | ERJ3RHD103V  | Metal        | 10K ohms 1/16W    | L3                     | G1C101M00009 | Choke Coil                  |                                 |
| R139     | ERJ3RHD362V  | Metal        | 3.6K ohms 1/16W   | L4                     | G1C560M00004 | Choke Coil                  |                                 |
| R144,168 | ERJ3GEY0R00  | Carbon       | 0 ohm 1/16W       | L5                     | G1C151J00003 | Choke Coil                  |                                 |
| R179     | ERJ3GEYJ753V | Carbon       | 75K ohms 1/16W    | L6                     | G1C560Z00003 | Choke Coil                  |                                 |
| R180     | ERJ3GEYJ683  | Carbon       | 68K ohms 1/16W    | L7                     | G1C820M00002 | Choke Coil                  |                                 |
| R181     | ERJ3GEYJ102  | Carbon       | 1K ohms 1/16W     | L8                     | G1C221Z00002 | Choke Coil                  |                                 |
| R182     | ERJ3GEYJ472  | Carbon       | 4.7K ohms 1/16W   | L9,16                  | G1C220M00003 | Choke Coil                  |                                 |
| R183     | ERJ3GEYJ203V | Carbon       | 20K ohms 1/16W    | SF1                    | K5H202A00002 | Special Fuse for AW-E800E   |                                 |
| C6       | YGM1F104Z1ET | Ceramic      | 0.1 $\mu$ F 25V   |                        | K5H202A00003 | Special Fuse for AW-E800    |                                 |
| C8       | YGM1C102J1ET | Ceramic      | 1000 pF           | CF1,2                  | J0JHA0000001 | Special Filter              |                                 |
| C9       | GRM9B472K5H  | Ceramic      | 4700 pF           | JK1                    | 0740-010618  | Power Jack                  |                                 |
| C10      | YGM1F104Z1ET | Ceramic      | 0.1 $\mu$ F 25V   | P1                     | K1MR70B00001 | 70-pin Connector            |                                 |
| C11      | F1H1A2240001 | Ceramic      | 0.22 $\mu$ F 10V  | P2                     | K1KA12B00002 | 12-pin Connector            |                                 |
| C13,14   | YGM1F104Z1ET | Ceramic      | 0.1 $\mu$ F 25V   | P3                     | YW524651891  | 18-pin Connector            |                                 |
| C15      | F1H1H473A199 | Ceramic      | 0.047 $\mu$ F 50V | E1,2                   | YWRCT2125TPV | Terminal Pin                |                                 |
| C16      | YW20SM33M    | Electrolytic | 33 $\mu$ F 20V    | E4,5                   | YWRCT2125TPV | Terminal Pin                |                                 |
| C17      | ECA1CHG471   | Electrolytic | 470 $\mu$ F 16V   | M34                    | 5G1A102A     | Heat Sink                   |                                 |
| C19      | YW20SA100M   | Electrolytic | 100 $\mu$ F 20V   | <b>POWER SUB BOARD</b> |              |                             |                                 |
| C20      | F1H1H102A190 | Ceramic      | 1000 $\mu$ F 50V  |                        |              |                             |                                 |
| C21      | ECGC0JB680RA | Electrolytic | 68 $\mu$ F 6.3V   | PCB7 (RTL)             | WE800EKC2A   | Printed Circuit Board Ass'y |                                 |
| C22      | GRM9CH120J5H | Ceramic      | 12 pF             | D1                     | LN277RPX     | Diode                       |                                 |
| C23      | F2H1A4710001 | Electrolytic | 470 $\mu$ F 10V   | R1                     | ERJ3GEYJ182  | Carbon                      |                                 |
| C25      | F1H1H102A190 | Ceramic      | 1000 $\mu$ F 50V  | CF1,2                  | J0JDC0000009 | Special Filter              |                                 |
| C26      | ECGC0JB680RA | Electrolytic | 68 $\mu$ F 6.3V   | CF3-5                  | J0MAB0000001 | Filter                      |                                 |
| C27      | F2H1A4710001 | Electrolytic | 470 $\mu$ F 10V   | CF6                    | F1L1H2040003 | Filter                      |                                 |
| C29      | F1H1H102A190 | Ceramic      | 1000 $\mu$ F 50V  | CF7,8                  | J0MAB0000001 | Filter                      |                                 |
| C30      | ECGC1BB330RA | Electrolytic | 33 $\mu$ F 12.5V  | P1                     | YW533091891  | 18-pin Connector            |                                 |
| C31      | YGM1B103K1HT | Ceramic      | 0.01 $\mu$ F      | P2                     | HR10A10R12SB | 12-pin Connector            |                                 |
| C32      | F2H1A4710001 | Electrolytic | 470 $\mu$ F 10V   | P3,4                   | YWBNCDRD     | Connector                   |                                 |
| C33      | YW20SM33M    | Electrolytic | 33 $\mu$ F 20V    | M35                    | YW1B1B010A   | Mounting Parts              |                                 |
| C34      | F2H1E2210001 | Electrolytic | 220 $\mu$ F 25V   | M36                    | YWLH55       | Spacer                      |                                 |
| C35      | F1H1H102A190 | Ceramic      | 1000 $\mu$ F 50V  |                        |              |                             |                                 |
| C37      | YGM1F104Z1ET | Ceramic      | 0.1 $\mu$ F 25V   |                        |              |                             |                                 |
| C38      | ECA1EHG471   | Electrolytic | 470 $\mu$ F 25V   |                        |              |                             |                                 |
| C39,40   | YGM1F104Z1ET | Ceramic      | 0.1 $\mu$ F 25V   |                        |              |                             |                                 |
| C41      | YGM1B103K1HT | Ceramic      | 0.01 $\mu$ F      |                        |              |                             |                                 |
| C42-44   | YGM1F104Z1ET | Ceramic      | 0.1 $\mu$ F 25V   |                        |              |                             |                                 |
| C45      | YGM1F105Z1AT | Ceramic      | 1 $\mu$ F         |                        |              |                             |                                 |
| C47,52   | YGM1F104Z1ET | Ceramic      | 0.1 $\mu$ F 25V   |                        |              |                             |                                 |
| C54      | YGM1B103K1HT | Ceramic      | 0.01 $\mu$ F      |                        |              |                             |                                 |
| C55      | YGM1F104Z1ET | Ceramic      | 0.1 $\mu$ F 25V   |                        |              |                             |                                 |
| C56      | ECA1EHG471   | Electrolytic | 470 $\mu$ F 25V   |                        |              |                             |                                 |

| REF. NO.                          | PART NO.     | DESCRIPTION                         | REF. NO. | PART NO. | DESCRIPTION |
|-----------------------------------|--------------|-------------------------------------|----------|----------|-------------|
| ACCESSORY PARTS / PACKAGING PARTS |              |                                     |          |          |             |
| M41                               | 5G1A073A     | Rubber Sheet                        |          |          |             |
| M42                               | YWT050803    | Polyethylene Bag                    |          |          |             |
| M43                               | YVV2TA1045A3 | Mounting Bracket                    |          |          |             |
| M44                               | YWT10X10C03  | Polyethylene Bag                    |          |          |             |
| M45                               | △ 7J1A402B   | Operating Instructions for AW-E800  |          |          |             |
|                                   | 7J1A380B     | Operating Instructions for AW-E800E |          |          |             |
| M47                               | 0C1A073AB    | Packing Ass'y for AW-E800           |          |          |             |
|                                   | 0C1A073AC    | Packing Ass'y for AW-E800E          |          |          |             |

